C.V. SUMMARY

GEORGE GAZETAS

School of Civil Engineering, National Technical University, Athens , Greece

Tel.: 0030 210 772 40 75, e-mail: gazetas@central.ntua.gr

EDUCATION

Diploma in Civil Engineering National Technical University of Athens, Greece (NTUA): [1973]
M.S. Massachusetts Institute of Technology (MIT): [1975]
Ph.D. Massachusetts Institute of Technology (MIT): [1976]

ACADEMIC POSITIONS :

- Case Western Reserve University, Cleveland, Ohio, *Assistant Professor*, [1978-81]
- Rensselaer Polytechnic Institute (RPI), Troy, NY , *Associate Professor*, [1981-85]
- State University of New York at Buffalo, *Professor of Civil Engineering* [1989-93]
- National Technical Univ., Athens, *Professor of Soil Mechanics ,* [1985-present **]**

HONORS, AWARDS:

- Selected as the ***59th Rankine Lecturer for 2019***, Institution of Civil Engineers, London
- The 2015 ***Award for Excellence in Academic Teaching***, bestowed *"In memory of Vassilis Xanthopoulos and Stephanos Pneymatikos"* by the Institute of Technology and Research, Greece
- The ***ISET-SP Award, 2014*** (by the Indian Society of Earthquake Technology)
- The ***4th " Ishihara"* 2013** Lecturer, International Society of Soil Mechanics & Geotechnical Engineering
- ***T. K. Hsieh Award 2009*** (Institution of Civil Engineers, London)
- The ***"Coulomb"* 2009** Lecturer, French Association of Soil Mechanics and Foundation Engineering
- ***Distinguished Lecture*** Award of the Japanese Society of Civil Engineers (JSCE), 2016
- ***T. K. Hsieh Award 1997*** (Institution of Civil Engineers, London)
- ***Shamsher Prakash Research Award 1990*** (S. Prakash Research Foundation)
- ***Walter Huber Civil Engineering Research Prize 1988*** [American Society of Civil Engineers (ASCE)]
- ***James Croes Medal 1985*** (ASCE)
- ***Alfred Noble Prize 1982*** (ASCE, ASME, AIM, IEEE)

RESEARCH and PUBLICATIONS:

Researcher in the fields of Geotechnical Earthquake Engineering, Soil Mechanics and Foundations. Author of over **500** publications in journals and conference proceedings.

ENGINEERING PROJECTS :

Consultant, Designer, Referee in public and private engineering projects in Greece, in U.S.A., Japan, U.K., Canada, Germany, Venezuela, Italy, and middle-East. Topics related to earthquake and foundation engineering.

KEYNOTE and SPECIAL LECTURES :

State-of- the-art and/or Keynote Speaker in **50+** international and national conferences and symposia.

- Current President of the Hellenic Association for Soil Mechanics & Geotechnical Engineering (2015 –)
- Past President of the Hellenic Society for Earthquake Engineering (2003–2009)
- 1999 – 2005 , Board of Directors of the Organization of Anti-Seismic Protection (OASP) of Greece
- Member, drafting Committees of the Greek (EAK), European (EC-8), and US (NEHRP) Seismic Codes.

EXTENDED CV

AWARDS and PRIZES

Forthcoming: **59th Rankine** Lecturer, March 2019.

Winner of the **2015 Award for Excellence in Academic Teaching "In memory of Vassilis Xanthopoulos- Stephanos Pneymatikos"** bestowed by the Institute of Technology and Research in a special ceremony. Emeritus Professor Theodosios Tassios presented the academic and teaching work of the awardee, and Professor Gazetas gave a talk on: ***"Paradoxical case-histories in seismic geotechnical engineering".***

Winner of the **ISET-Shamsher Prakash, Award for 2014**, for Significant Achievements in Geotechnical Earthquake Engineering and Soil Dynamics selected by the Executive Committee of the Indian Society of Earthquake Technology.

The ***Fourth "Ishihara Lecturer", for 2013***. Selected by the Geotechnical Earthquake Engineering Committee of the International Society of Soil Mechanics and Geotechnical Engineering The lecture :"Soil–Foundation–Structure Systems Beyond Conventional Seismic "Failure Thresholds" was delivered during the18th International Conference, Paris 2013.

Winner of the **2009 T.K. Hsieh Award** conferred by the Institution of Civil Engineers (UK) for the paper *"Insight into seismic earth and water pressures against caisson quay walls"*, which was published in the journal *Géotechnique* in 2008, as "the best paper published by the Institution in the field of structural and soil vibration " .

Selected by the French Association of Soil Mechanics and Foundation Engineering as the **"Coulomb Lecturer" for 2009.** The lecture: *"Seismic Soil Structure Interaction on the Verge of Failure"* was delivered in the Conservatoire des Arts et des Métiers in Paris on June 26.

Recipient of the **2002 Distinguished Lecture Award** by the Japanese Society of Civil Engineers (JSCE). The lecture title *"A new Constitutive model for Soil Response and Soil–Structure Interaction Analysis"*, was delivered in the Tokyo Headquarters of the Society in May 29.

Winner of the **1997 T.K. Hsieh Award** conferred by the Institution of Civil Engineers (UK) for the paper *"Dynamic soil--pile-foundation--structure interaction : records and predictions"*, which was published in the journal : *Géotechnique* in 1996, as "the best paper published by the Institution in the field of structural and soil vibration " .

Winner of the **1990 Shamsher Prakash Research Award** for his *"..contributions to the understanding of the dynamic response of foundations... and the seismic response of dams"*, conferred by the Shamsher Prakash Research Foundation.

Winner of the **1988 Walter L. Huber Civil Engineering Research Prize** conferred by the American Society of Civil Engineers (ASCE) *"for his research on improving the basic understanding and*

developing practical engineering methods to analyze soil and soil-structure systems under dynamic loading," October, 1988.

Winner of the **1985 James Croes Medal** conferred by American Society of Civil Engineers (ASCE) for the paper: *"Horizontal Response of Piles in Layered Soils,"* published in the Geotechnical Engineering Journal, Jan. 1984.

Winner of the **1982 Alfred Noble Prize** for the publication entitled: *"Longitudinal Vibrations of Embankment Dams,"* which appeared in the Journal of Geotechnical Engineering, in 1981. Award conferred by a committee made up of representatives of the American Society of Civil Engineers (ASCE), American Society of Mechanical Engineering, American Institute of Mining, Metallurgical and Petroleum Engineers, and the Institute of Electrical and Electronic Engineers (JEEE).

Co-Winner of the **1985 Outstanding Publication Award** by the Hudson-Mohawk Section of ASCE for the paper: *"Dynamic Stiffness and Damping of Foundations Using Simple Methods"*, published in "Vibration Problems in Geotechnical Engineering."

Co-Winner of the **1984 Outstanding Publication Award** of the Hudson-Mohawk Section of ASCE for the paper : *"Simple Radiation Damping Model for Piles and Footings,"* published in the Journal of Engineering Mechanics, ASCE, June 1984.

Winner of the **1982 Outstanding Publication Award** of the Hudson-Mohawk Section of ASCE for the paper: *"Stresses and Displacements in Cross-Anisotropic Soils"* Which was published in the Journal of Geotechnical Engineering, ASCE, April, 1982.

Received the following awards during his studies at the National Technical University, Athens:

H. Hrysoverghis Award *in* ***1973*** *(highest Q.P.A. in the class of 1973) ;* ***D. Thomaidis Award*** *in* ***1972*** *and in* ***1973*** *(highest ranking among all students in the five-year program of the School of Civil Engineering) ;* ***"Technical Chamber of Greece"*** *First Prize in* ***1972*** *and in* ***1973*** *;* ***"Technical Chamber of Greece"*** *Second Prize in* ***1971*** *(second highest ranking among all students in the School of Civil* Engineering) ; **"D. Pippas"** Prize in **1970** (best student in Descriptive and Higher Geometry in two academic years: 1968-69, 1969-70.)

KEYNOTE, or **STATE-OF-THE-ART,** or **"PLENARY-SESSION" Speaker**

(the list does *not* include *Invited Theme Lectures*)

The Keynote Speaker, on *"AVOIDING OVER-CONSERVATISM and CONVENTIONAL DOGMAS IN SEIMCI GEOTECHNICAL DESIGN"* in the *12th Australia New Zealand Conference on Geomechanics,* Wellington, New Zealand, 22-25 February 2015.

Prize-Winner-Acceptance & Keynote Lecturer on *"FOUNDATIONS of BRIDGE PIERS : NEW TRENDS in SEISMIC DESIGN", National Conference of the Indian Society for Earthquake Technology,* Roorkee, India, 11-13 December, 2014.

Keynote Lecturer on *"IMMERSED TUNNEL SUBJECTED TO NORMAL FAULT RUPTURE AND SUBSEQUENT STRONG SEISMIC SHAKING"* in the Half-Day Symposium at the Royal Geographical Society, *Memorial Symposium for Nicholas Ambraseys,* Imperial College, London, 19th of March 2014.

Keynote Lecturer on *"CASE HISTORIES OF TUNNEL FAILURES DURING EARTHQUAKES and DURING CONSTRUCTION",* in the Half-Day Conference" A Tunnel/Underground Station Failure Conference", which organized by the Israeli Geotechnical Society, 19th of January, 2014.

The Fourth "Ishihara" Lecturer, for 2013, on "SOIL–FOUNDATION–STRUCTURE SYSTEMS BEYOND CONVENTIONAL SEISMIC "FAILURE THRESHOLDS*",* 18th ICSMGE International Conference on Soil Mechanics and Geotechnical Engineering , (selected by the Geotechnical Earthquake Engineering Committee of the International Society of Soil Mechanics and Geotechnical Engineering), Paris, France 2-5 September, 2013

Keynote Lecturer on "SIMPLIFIED NONLINEAR STIFFNESS AND DAMPING FOR ROCKING FOUNDATIONS" in the International Conference on Earthquake Geotechnical Engineering, from Case Histories to Practice; In the Honour of Prof .Kenji Ishihara, Istanbul, Turkey 17 - 19 June 2013.

State of the Art Speaker on "INCONCLUSIVE CASE HISTORIES IN EARTHQUAKE GEOTECHNICS FROM CHRISTCHURCH", Seventh International Conference on Case Histories in Geotechnical Engineering, Chicago, April 29-May 4, 2013.

Keynote Speaker on "SHOULD RESPONSE SPECTRA BE THE BASIS OF DESIGNING STRONGLY INELASTIC AND SSI SYSTEMS ?", 3rd International Symposium on Advances in Urban Safety, Nanjing, China, 24-25 November, 2012.

Plenary-Session Speaker on "UNFOUNDED PRESUMPTIONS ON THE NATURE OF BASE EXCITATION MAY ERRONEOUSLY AFFECT THE RESPONSE OF STRONGLY INELASTIC SYSTEMS". *15 World Conference in Earthquake Engineering,* Lisbon, 24-28 September, 2012.

State of the Art Speaker, on "NONLINEAR SOIL–FOUNDATION–STRUCTURE INTERACTION", *Second International Conference on Performance based Design in Earthquake Geotechnical Engineering*, May 28-30, Taormina, Italy, 2012.

Plenary Speaker, on "GROUND MOTIONS, STRUCTURAL and GEOTECHNICAL EFFECTS of the FEBRUARY 2011 CHRISTCHURCH EARTHQUAKE" at ASCE Met Section talk:"New Trends in Seismic Evaluation and Retrofit", a technical seminar & an exhibition, in April 2-3, NY, 2012.

Plenary Session Speaker, on " GEOTECHNICAL DESIGN with FACTORS of SAFETY BELOW 1? *15th European Conference on Soil Mechanics & Geotechnical Engineering,* 12-15 September, Athens, 2011

*Keynote Speaker on "*FOUNDATIONS of TALL BRIDGE PIER and FRAME NEAR COLLAPSE", *5th International Conference on Earthquake Geotechnical Engineering*, January 10-13, Santiago, Chile, 2011.

Keynote Speaker on "SOIL-FOUNDATION-STRUCTURE SYSTEMS BEYOND CONVE-NTIONAL FAILURE MODES", *Fifth International Conference on Recent Advances in Geotechnical Earthquake Engineering Soil Dynamics* and Symposium in Honor of Professor I.M. Idriss, May 24-27, San Diego, California, USA, 2010.

"Coulomb" Lecturer for 2009 on SEISMIC SOIL STRUCTURE INTERACTION ON THE VERGE OF FAILURE". Selected by the *French Association of Soil Mechanics and Foundation Engineering,* and was delivered in the Conservatoire des Arts et des Métiers in *Paris*, June 26, 2009.

State of the Art Speaker on "SEISMIC SOIL-STRUCTURE INTERACTION UNDER LARGE DEFORMATIONS", *3rd National Conference on Earthquake Engineering and Engineering Seismology, Athens,* 5-7 November, 2008

State of the Art Speaker on "CASE HISTORIES OF FOUNDATION ON TOP OF A RUPTURING NORMAL FAULT DURING THE , KOCAELI 1999 EARTHQUAKE"*, 6ht International Conference on Case Histories in Geotechnical Engineering, Washington ,* August 11-16, 2008

*Keynote Speaker on "*EFFECTS OF NEAR-FAULT GROUND SHAKING ON SOILS RESPONSE SPECTRA, AND GEOTECHNICAL STRUCTURES", *Geotechnical Earthquake Engineering and Soil Dynamics IV,* Sacramento, CA 18-22 May 2008.

Keynote Speaker on "SOIL-FOUNDATION-STRUCTURE INTERACTION DUE TO A RUPTURING NORMAL FAULT : THE DENIZEVLER CASE HISTORIES, KOCAELI 1999"*, 1st National Turkish Specialty Symposium on Soil-Structure Interaction, Turkish Society for Soil Mechanics and Foundation Engineering,* Istanbul 8-9 November 2007.

Keynote Speaker on "CAUSES OF THE OVERTURNING OF BUILDINGS IN ADAPAZARI, 1999", *Sixth Turkish National Conference on Earthquake Engineering,* Turkish Association for Earthquake Engineering, Istanbul, 16-20, October 2007.

Keynote Speaker on "SHALLOW AND DEEP FOUNDATIONS UNDER FAULT RUPTURE OR STRONG SEISMIC SHAKING", *4th International Conference on Earthquake Geotechnical Engineering ,* Thessaloniki 25-28 June, 2007.

*Keynote Speaker on "*DEEP IMMERSED TUNNEL UNDER COMBINED MAJOR FAULT AND SUBSEQUENT STRONG SEISMIC SHAKING", *2nd Japan-Greece Workshop on Seismic Design, Observation, Retrofit of Foundations,* Tokyo, Japan, 3-4 March, 2007.

Keynote Speaker on "SEISMIC DESIGN OF FOUNDATIONS AND SOIL-STRUCTURE INTERACTION", *1ST European Conference on Earthquake Engineering and Seismology,* Geneva, 3-8 September 2006.

Keynote Speaker on : " SEISMIC ANALYSIS OF SHALLOW FOUNDATIONS : BEYOND EC8**",** *20th National Italian Geotechnical Conference : "La Progettazione Geotechnica con gli Eurocodici" (Geotechnical Design with Eurocodes), Torino, Italy,* 22-23 November 2005.

Invited Lecturer on "SEISMIC VALLEY EFFECTS : HOW IMPORTANT AND HOW PREDICTABLE ARE THEY", *in the Final Workshop of the EUROSEISRISK, Project, Artistoteleio University of Thessaloniki,* 21 June, 2005.

The Keynote Speaker for Geotechnical Earthquake Engineering, on : "THE OVERTURNING of TEVERLER BUILDING in ADAPAZARI"*, Inaugural Conference of the Center for Urban Earthquake Engineering, Tokyo Institute of Technology, Tokyo 7–8 March 2005.*

Keynote Speaker on :" SETTLEMENT AND OVERTURNING of BUILDINGS in ADAPAZARI, DURING the KOCAELI EARTHQUAKE", *5ht International Conference on Case Histories in Geotechnical Engineering, New York,* April 13–17, 2004.

State-of-the-Art Speaker at the 2nd US-JAPAN Workshop on Seismic Soil-Structure Interaction on: "SSI ISSUES in TWO EUROPEAN PROJECTS and a RECENT EARTHQUAKE" *Menlopark*, California, 29-30 March 2004

Delivered the biennial 3rd Athenian Lecture of *Geotechnical Engineering***: "**SOIL-FOUNDATION-STRUCTURE INTERACTION under CONDITIONS of FAILING GROUND and LARGE DEFORMATIONS : NEW PARADIGMS PROMPTED by the IZMIT 1999 EARTHQUAKE", February 4, 2004.

Keynote Speakers on : "SEISMIC UPLIFTING of FOUNDATION SOFT SOIL, WITH EXAMPLE FROM ADAPAZARI (IZMIT 1999 EARTHQUAKE" *in the International Conference of the British Geotechnical Association: Foundations – Innovations, Observations, Design & Practice,* in the University of *Dunde, Scotland,* September 2–5, 2003.

The Distinguished Speaker of the Japanese Society of Civil Engineers (JSCE). The lecture, titled "A NEW CONSTITUTIVE MODEL for SOIL RESPONSE and SOIL–STRUCTURE INTERACTION ANALYSIS", was delivered in *Tokyo,* May 29, 2002

State-of-the-Art Speaker at the 3rd US-JAPAN Workshop on Seismic Soil-Structure Interaction on: "SSI ISSUES in TWO EUROPEAN PROJECTS and a RECENT EARTHQUAKE" *Tsukuba*, Japan, 7 March 2001.

State-of -the -Art Speaker at the 4th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, on : "ISSUES in ANALYSING the RESPONSE of PILES in PRACTICAL APPLICATIONS", *San Diego, California*, 28 March 2001.

The Keynote Speaker at the National Japanese Conference on Seismic Soil-Structure Interaction on: "UNRESOLVED ISSUES in SOIL-STRUCTURE INTERACTION", *Tokyo*, 5 March 2001.

Keynote Speaker on "PERFORMANCE of PILE FOUNDATIONS in EARTHQUAKES" in the Symposium on the Seismicity of Western Turkey (BADSEM), Izmir, 27 May 2000.

Main Speaker on "CHARACTERISTICS of SEISMIC MOTION and the ROLE of SOIL on ATHENS EARTHQUAKE 1999" at the National Conference on the Effects of the 1999 Parnitha (Athens) Earthquake, *Athens,* 9 November 2000.

"Emerging–Art" Speaker on "SOIL—STRUCTURE INTERACTION" in the 3rd Geotechnical Earthquake Engineering and Soil Dynamics, Conference of ASCE, *Seattle,* 3-6 August *1998.*

Keynote Speaker on "THE SEISMIC HAZARD : GEOLOGICAL SEISMOLOGICAL AND GEOTECHNICAL ISSUES", in the International Symposium of Engineering Geology and Environment, *Athens*, 23-26 June *1997*.

State-of-the-Art Speaker on "SEISMIC ANALYSIS OF PILE-SUPPORTED BRIDGE PIERS USING SIMPLIFIED METHODS", in the 3nd Int. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, *St. Louis*, 4 April, *1995*.

The Keynote Speaker on "LESSONS LEARNED from SOME RECENT EARTHQUAKES" at the Swedish National Symposium on Dynamics, *Stockholm*, 23 November, *1994*.

Keynote Speaker on "HARD SOIL, SOFT ROCK, HARD ROCK: EFFECTS ON SEISMIC GROUND MOTIONS" at the International Conference on Hard Soils–Soft Rocks, *Athens,* 23 September, *1993*.

State-of-the-Art Speaker on "EC8 SEISMIC PROVISIONS IN VIEW OF RECENT THEORETICAL AND FIELD EVIDENCE" at the 6th International Conference on Soil Dynamics & Earthquake Engineering, *Bath*, 15 June, *1993*.

State-of-the-Art Speaker on "SEISMIC RESPONSE of BRIDGE PILE FOUNDATION" at the 3rd International Conference on Case Histories in Geotechnical Engineering, *St. Louis*, 3 June *1993*.

State-of-the-Art Speaker on "SEISMIC RESPONSE OF PILE FOUNDATIONS" at the 12th World Conference on Earthquake Engineering, *Madrid*, 12 July *1992*.

The State-of-the-Art Speaker on "SEISMIC RESPONSE of FOUNDATIONS" at the NSF Workshop on Soil Improvement and Remedial Measures with Emphasis on Seismic Hazards, held at Univ. Wash. in *Seattle*, 21 August *1991*.

State-of-the-Art Speaker on "SEISMIC ANALYSIS and DESIGN of ROCKFILL DAMS", in the 2nd Int. Conf. on Geotechnical Earthquake Engineering and Soil Dynamics, held in *St. Louis*, 13 March *1991*.

Keynote Speaker on "THE ROLE of SOIL in the MEXICO 1985 and KALAMATA 1986 EARTHQUAKES," in the 1st Hellenic Conference on Soil Mechanics and Foundation Engineering, *Athens*, 27 February *1988*.

State-of-the-Art Speaker on "SEISMIC RESPONSE of EARTH DAMS" at the Second International Conference on Soil Dynamics and Earthquake Engineering, *New York*, 7 July *1985*.

State-of-the-Art Speaker on "ANALYSIS OF MACHINE FOUNDATION VIBRATIONS," at the International Conference on Soil Dynamics and Earthquake Engineering, *Southampton University*, UK, 14 July *1982*.

LIST of PUBLICATIONS

(in Reverse Chronological Order)

Refereed Journals

1. A. Tsatsis, F. Gelagoti, **G. Gazetas**, Performance of a buried pipeline along the dip of a slope experiencing accidental sliding *Geotechnique*, 68(11), pp. 968–988, October 10, 2018.
2. M Loli, R Kourkoulis, **G Gazetas**, Physical and Numerical Modeling of Hybrid Foundations to Mitigate Seismic Fault Rupture Effects *Journal of Geotechnical and Geoenvironmental Engineering* 144 (11), 04018083, 2018.
3. Efthymiou G., **Gazetas G.,** Elastic stiffnesses of a rigid suction caisson and its cylindrical sidewall shell, *Journal of Geotechnical and Geoenvironmental Engineering* 144 (11), 04018090, 2018.
4. J Régnier, LF Bonilla, PY Bard, E Bertrand, F Hollender, H Kawase,...**Gazetas G., …** **"**PRENOLIN: International benchmark on 1D nonlinear site response analysis—Validation phase exercise," *Bulletin of the Seismological Society of America,* 108 (2), 876-900 6 2018..
5. A Tsatsis, F Gelagoti, G Gazetas, Performance of a buried pipeline along the dip of a slope experiencing accidental sliding, *Géotechnique*, 1-21 2018.
6. E Garini, **G Gazetas**, K Ziotopoulou, "Inelastic soil amplification in three sites during the Tokachi-oki MJMA 8.0 earthquake", *Soil Dynamics and Earthquake Engineering* 110, 300-317 2018.
7. E Garini, **G Gazetas**, I Anastasopoulos, Evidence of significant forward rupture directivity aggravated by soil response in an Mw6 earthquake and the effects on monuments," *Earthquake Engineering & Structural Dynamics* 46 (13), 2103-2120 2017.
8. Fadaee M., Ezzatyazdi P., Anastasopoulos I., **Gazetas G.,** "Mitigation of reverse faulting deformation using a soil bentonite wall: Dimensional analysis, parametric study, design implications", *Soil Dynamics and Earthquake Engineering* 89, 248-261, 2016.
9. Smyrou E., Bal I.E., Tasiopoulou P., and **Gazetas G**., "Wavelet analysis for relating soil amplification and liquefaction effects with seismic performance of precast structures", *Earthquake Engineering and Structural Dynamics*, DOI: 10.1002/eqe.2701, 2016.
10. J Régnier, LF Bonilla, PY Bard, E Bertrand, F Hollender, H Kawase, ... **Gazetas G.,..** International benchmark on numerical simulations for 1D, nonlinear site response (PRENOLIN): Verification phase based on canonical cases," *Bulletin of the Seismological Society of America*, 106 (5), 2112-2135 30 2016.
11. **G Gazetas**, E Garini, A Zafeirakos Seismic analysis of tall anchored sheet-pile walls *Soil Dynamics and Earthquake Engineering* 91, 209-221 5 2016.
12. **G Gazetas**, Discussion on "On the rocking complex response of ancient multispondyle columns: a genious and challenging structural system requiring reliable solution" *Meccanica*, 2 (50), 293-294 2015.
13. Ntritsos N., Anastasopoulos I., & **Gazetas G**., "Static and Cyclic Undrained Response of Square Embedded Foundations", *Géotechnique,* 65(10), 805-823, 2015.
14. Loli M., Anastasopoulos I. **Gazetas G**. "Nonlinear Analysis of Earthquake Fault Rupture Interaction with Historic Masonry Buildings", *Bulletin of Earthquake Engineering,* Vol. 13, pp. 83-95, 2015.

15. J Douglas, DM Seyedi, T Ulrich, H Modaressi, E Foerster,..**G Gazetas**, … Evaluation of seismic hazard for the assessment of historical elements at risk: description of input and selection of intensity measures. *Bulletin of Earthquake Engineering* 13 (1), 49-65, 2015.

16. **Gazetas G**., "4th Ishihara Lecture: Soil-Foundation-Structure Systems Beyond Conventional Seismic Failure Thresholds", *Soils Dynamics and Earthquake Engineering,* Vol. 68, pp. 23-39, 2015.

17. **Gazetas G**., Zarzouras O., Drosos V., Anastasopoulos I. "Bridge-Pier Caisson Foundations subjected to Normal and Thrust : Physical Experiments versus numerical analysis", *Meccanica,* Vol. 50, pp. 341-354, 2015.

18. Loli M., Knappett J.M., Brown M.J., Anastasopoulos I. **Gazetas G**. "Centrifuge Modeling of Rocking-Isolated Inelastic RC Bridge Piers", *Earthquake Engineering & Structural Dynamics*, Vol. 43(15), pp. 2341-2359, 2014.

19. Garini E., Makris N., **Gazetas G.** "Elastic and Inelastic Systems under Near-Fault Seismic Shaking: Acceleration Records Versus Optimally-Fitted Wavelets", *Bulletin of Earthquake Engineering,* DOI: 10.1007/s10518-014-9631-z , 2014.

20. **Gazetas G.,** Anastasopoulos I., Garini Ev. "Geotechnical Design with Apparent Seismic Safety Factors Well-Bellow 1", *Soil Dynamics and Earthquake Engineering,* Vol. 57, pp. 37-45, 2014.

21. Anastasopoulos I., Gelagoti F., Spyridaki, A. Sideri Tz., and **Gazetas G.** "Seismic Rocking Isolation of Asymmetric Frame on Spread Footings"*, Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 140(1), pp. 133-151, 2014.

22. Kokkali P., Abdoun T., Anastasopoulos I., **Gazetas G.** "Static and cyclic rocking on Sand : centrifuge versus reduced-scale 1g experiments", Geotechnics Vol. 64, No. 11, pp. 865-880, 2014.

23. Adamidis O., **Gazetas G.,** and Anastasopoulos I, " Equivalent–Linear Stiffness and Damping in Rocking of Circular and Strip Foundations", *Bulletin of Earthquake Engineering,* Vol. 12(3), 1177-1200, 2014.

24. Fadaee M., Anastasopoulos I., **Gazetas G.,** Jafari M.K., & Kamalian M., "Soil Bentonite Wall Protects Foundation from Thrust Faulting : Analyses and Experiment", *Earthquake Engineering and Engineering Vibration,* Vol. 12(3), pp. 473-486, 2013.

25. Anastasopoulos I., Kourkoulis R., **Gazetas G.,** Tsatsis A. "Interaction of Piled Foundation with a Rupturing Normal Fault", *Géotechnique,* Vol. 63 (12), pp. 1042-1059, 2013.

26. **Gazetas G. ,** Anastasopoulos I., Adamidis O., Kontoroupi Th. "Nonlinear Rocking Stiffness of Foundations", *Soil Dynamics & Earthquake Engineering*, Vol. 47, pp.83-91, 2013.

27. Tasiopoulou P., Gerolymos N., Tazoh T., and **Gazetas G.** "Pile – Group Response to Large Soil Displacements and Liquefaction: Centrifuge Experiments Versus a Physically Simplified Analysis", *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 139(2), pp. 223-233, 2013.

28. Garini E., **Gazetas G.**, "Damage Potential of Near-Fault Records : Sliding Displacement against Conventional "Intensity Measures"*, Bulletin of Earthquake Engineering,* Vol. 11, pp. 455-480, 2013.

29. Panagiotidou A.I., **Gazetas G.,** and Gerolymos N., "Pushover and Seismic Response of Foundations on Overconsolidated Clay: Analysis with P-Δ Effects", *Earthquake Spectra,* Vol. 28(4), pp. 1589-1618, 2012.

30. Gelagoti F., Kourkoulis R., Anastasopoulos I., **Gazetas G.** "Rocking−isolated Frame Structures : Margins of Safety against Toppling Collapse and Simplified Design Approach", *Soil Dynamics and Earthquake Engineering,*Vol 32(1), pp.87-102, 2012.

31. Loli M., Bransby M.F., Anastasopoulos I., **Gazetas G.**, "Interaction of Caisson Foundations with a Seismically Rupturing Normal Fault: Centrifuge Testing versus Numerical Simulation", *Géotechnique*, Vol. 62(1), pp 29-44, 2012.

32. Kourkoulis R., Gelagoti F., Anastasopoulos I., **Gazetas G.,** "Hybrid Method for Analysis and Design of Slope Stabilizing Piles", *Journal of Geotechnical and Geoenvironmental Engineering,* ASCE, Vol. 138(1) ,pp. 1-14, 2012.

33. **Gazetas G.,** Garini E., Berill J.B., Apostolou M. " Sliding and Overturning Potential of the Christchurch 2011 Earthquake Records", *Earthquake Engineering and Structural Dynamics*, Vol. 41(14), pp. 1921-1944, 2012.

34. Giannakos S., Gerolymos N., **Gazetas G.** " Cyclic Lateral Response of Piles in Dry Sand: Finite Element Modelling and Validation ", *Computers and Geotechnics*, **Vol. 14, pp. 116-131,** 2012.

35. Drosos V., Georgarakos P., Loli M., Zarzouras O., Anastasopoulos I., **Gazetas G.** "Soil–Foundation–Structure Interaction with Mobilization of Bearing Capacity : An Experimental Study of Sand", *Journal of Geotechnical and Geoenvironmental Engineering* (ASCE), **Vol. 138(11), pp.1369-1386, 2012.**

36. Gelagoti F., Kourkoulis R., Anastasopoulos I., **Gazetas G.,** "Rocking Isolation of low-rise Frame Structures founded on Isolated Footings", *Earthquake Engineering and Structural Dynamics* Vol. 41(7), pp. 1177-1197, 2012.

37. Gelagoti F., Kourkoulis R., Anastasopoulos I., **Gazetas G.,** "Nonlinear Dimensional Analysis of Trapezoidal Valleys Subjected to Vertically Propagating SV Waves", *Bulletin of Seismological Society of America,* Vol. 102 (3), 199-1017, 2012.

38. Drosos V., Gerolymos N., **Gazetas G.** "Constitutive Model for Soil Amplification of Ground Shaking: Parameter Calibration, Comparisons, Validation" *Soil Dynamics and Earthquake Engineering*, **Vol. 42, pp. 255-274,** 2012.

39. Anastasopoulos I., Gelagoti F., Kourkoulis R., **Gazetas G.,** "Simplified Constitutive model for Simulation of Cyclic Response of Shallow Foundations: Validation against Laboratory Tests", *Journal of Geotechnical and Geoenvironmental Engineering,* ASCE, Vol. 137(12), pp.1154 -1168, 2011.

40. Kouroussis G., **Gazetas G.,** Anastasopoulos I., Conti C., Verlinden O., "Discrete Modeling of Vertical Track–Soil Coupling for Vehicle–Track Dynamics", *Soil Dynamics and Earthquake Engineering*, Vol. 31(12), pp. 1711-1723, 2011.

41. Smyrou, E., Tasiopoulou, P., Bal, I.E. and **Gazetas, G.** "Ground Motions Versus Geotechnical and Structural Damage in the Christchurch February 2011 Earthquake," *Seismological Research Letters,* Vol 82(6), pp. 882-892, 2011

42. Loli M., Anastasopoulos I., Bransby M.F., Waqas A., **Gazetas G.**, "Caisson Foundations subjected to Reverse Fault Rupture : Centrifuge Testing and Numerical Analysis", *Journal of Geotechnical and Geoenvironmental,* Vol. 137(10), pp. 914-126, 2011

43. Garini E., **Gazetas G.,** and Anastasopoulos I., " Asymmetric 'Newmark' Sliding Caused by Motions Containing Severe 'Directivity' and 'Fling' Pulses", *Géotechnique*, Vol. 61, No. 9, 753-756, 2011

44. Kourkoulis R., Gelagoti F., Anastasopoulos I., **Gazetas G.**,"Slope Stabilizing Piles and Pile-Groups: Parametric Study and Design Insights", *Journal of Geotechnical and Geoenvironmental Engineering,* ASCE, ", *J. Geot. Geoenv. Eng.,* ASCE, 137(7), pp. 663-677, 2011.

45. Kourkoulis R., Anastasopoulos I., Gelagoti F., **Gazetas G.,** "Interaction of Foundation−Structure Systems with Seismically Precarious Slopes : Numerical Analysis with Strain Softening Constitutive Model", *Soil Dynamics & Earthquake Engineering ,* Vol. 30, pp. 1430-1445, 2010.

46. Gelagoti F., Kourkoulis R., Anastasopoulos I., Tazoh T., **Gazetas G.** ,"Seismic Wave Propagation in a very soft Alluvial Valley : Sensitivity to Ground Motion "details" and Soil Nonlinearity, Generation of Parasitic Vertical Component", *Bulletin of the Seismological Society of America,* Vol. 100, No.6, pp. 3035-3054, 2010

47. Anastasopoulos I., **Gazetas G.,** Loli M., Apostolou M, Gerolymos N., "Soil Failure can be used for Seismic Protection of Structures", *Bulletin of Earthquake Engineering*, Vol. 8, No. 2, pp. 309-325, 2010.

48. Anastasopoulos I., and **Gazetas G.**,"Analysis of cut-and-cover tunnels against large tectonic deformation", *Bulletin of Earthquake Engineering,* Vol. 9, No. 2 pp. 283-308, 2010

49. Giannakou A., Gerolymos N., Anastasopoulos I., **Gazetas G.,** and Tazoh T.,"Seismic Behaviour of Batter Piles — I. Elasic Response", *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 136, No. 5, 1187-1200, 2010

50. Anastasopoulos I., Antonakos G., **Gazetas G**. " Slab-Foundation subjected to thrust faulting in dry sand. Parametric analysis and simplified design method", *Soil Dynamics and Earthquake Engineering*, Vol. 30, pp. 912-924, 2010.

51. Tazoh T., Sato M., Jang J., **Gazetas G.** "Centrifuge Tests on Pile Foundation-Structure Systems Affected by Liquefaction–Induced Soil Flow after Quay Wall Failure", *Journal of Structural and Earthquake Engineering,* Japan Society of Civil Engineers, Japan Vol. 66, pp 133-147, 2010

52.Gazetas G. "Contributions to Géotechnique 1948–2008: Dynamics R. Lancellota and JW Pappin", *Géotechnique,* Vol. 59, No.9, pp. 789-791, 2009.

53. Bruni S., Anastasopoulos I., Alfi S., Van Leuven A., Apostolou M., and **Gazetas G.** , "Train-induced Vibrations on Urban Metro and Tram Turnouts", *Journal of Transportation Engineering*, ASCE, Vol. 135, No. 7, pp. 397–405, 2009.

54. Gazetas G., Garini E., and Anastasopoulos I., "Effects of Near–Fault Ground Shaking on Sliding Systems", *Journal of Geotechnical Engineering*, ASCE, 135, No. 12, pp. 1906–1921, 2009

55. Anastasopoulos I. Alfi S., **Gazetas G**., Bruni S., and Leuven V.A., "Numerical and experimental assessment of advanced concepts to reduce noise and vibration on urban railway turnouts", *Journal of transportation engineering*, Vol. 135, 279-287, 2009.

56. Gerolymos N., Drosos V., **Gazetas G.** , "Seismic response of single-column bridge pier on pile : evidence of beneficial role of pile and soil inelasticity, *Bulletin of Earthquake Engineering,* Vol. 7, No. 2, pp 547-573, 2009.

57. Assimaki D. and **Gazetas G.**, "A simplified model for the lateral response of large diameter caisson foundations – Linear elastic formulation", *Soil Dynamics and Earthquake Engineering*, Vol. 29, No.2, 268-291, 2009.

58. Gerolymos N., Escoffier S., **Gazetas G.,** Garnier J., "Numerical Modeling of Centrifuge Cyclic Lateral Pile Load Experiments", *Earthquake Engineering & Engineering Vibration,*, Vol. 8, No. 1, pp. 61-76, 2009.

59. Bruni S., Anastasopoulos I., Alfi S., Van Leuven A., **Gazetas G**.,"Effects of train impacts on urban turnouts: modelling and validation through measurements", *Journal of Sound and Vibration*, Vol. 324, No. 3–5, pp. 666–689, 2009

60. Anastasopoulos I., **Gazetas G.,** Bransby M.F., Davies M.C.R., and El Nahas A., "Normal Fault Rupture Interaction with Strip Foundations", *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 135, No. 3, pp. 359-370, 2009.

61. Anastasopoulos I., **Gazetas G.,** Drosos V., Georgarakos T., and Kourkoulis R., "Design of bridges against large tectonic deformation", *Earthquake Engineering and Engineering Vibration,* Vol. 7, pp. 345-368, 2008.

62. Anastasopoulos I., Gerolymos N., **Gazetas G.,** and Bransby M. F., "Simplified approach for design of raft foundations against fault rupture.Part I: Free-field", *Earthquake Engineering and Engineering Vibration*, Vol.7, pp. 147-163, 2008

63. Anastasopoulos I., Gerolymos N., **Gazetas G.,** and Bransby M. F.,"Simplified approach for design of raft foundations against fault rupture.Part II: Soil-Structure Interaction", *Earthquake Engineering and Engineering Vibration*, Vol. 7, pp. 165-179, 2008

64. **Gazetas G.,** Pecker A., Faccioli E., Paolucci R., and Anastasopoulos I., "Design Recommendations for Fault-Foundation Interaction", *Bulletin of Earthquake Engineering,* Vol. 6(4), pp. 677–687, 2008

65. Anastasopoulos, I., Callerio, A., Bransby, M.F., Davies, M.C.R., El. Nahas,A., Faccioli, E., **Gazetas, G.,** Masella, A.,Paolucci, R., Pecker, A., Rossignol, E., "Numerical Analyses of Fault-Foundation Interaction", *Bulletin of Earthquake Engineering,*.Vol. 6, pp. 645-676, 2008

66. Faccioli, E., Anastasopoulos, I., Callerio, A., and **Gazetas, G.**, "Case histories of fault-foundation interaction", *Bulletin of Earthquake Engineering,* Vol. 6, pp. 557- 584, 2008

67. Gerolymos, N., Giannakou, A., Anastasopoulos, I., and **Gazetas, G.**,"Evidence of Beneficial Role of Inclined Piles: Observations and Numerical Results", *Bulletin of Earthquake Engineering,* Vol. 6, pp .705-722, 2008

68. Tsigginos C. Gerolymos N., Assimaki D. and **Gazetas G.,** " Seismic Response of Bridge Pier on Rigid Caisson Foundation in Soil Stratum", *Earthquake Engineering and Engineering Vibration,* Vol. 7, No. 1, pp. 33-44, 2008

69. Anastasopoulos I., Gerolymos N., Drosos V., Kourkoulis R., Georgarakos T., & **Gazetas G.,** "Behaviour of Deep Immersed Tunnel under Combined Major Fault Rupture Deformation and Subsequent Strong Seismic Shaking", *Bulletin of Earthquake Engineering,* Vol. 6, No. 2, pp. 213-239,2008.

70. Dakoulas P. & **Gazetas G.,** "Insight to Seismic Earth and Water Pressures Against Caisson Quay Walls", *Geotechnique,* Vol. 58, No. 2, pp 95-113, 2008

71. Psarropoulos P.N., Tazoh T, **Gazetas G.** & Apostolou M., "Linear and Nonlinear Valley Amplification Effects on Seismic Ground Motion"*, Soils & Foundations,* Japanese Geotechnical Society *,* Vol. 47, No. 5, pp. 857-872., 2007..

72. Anastasopoulos I., & **Gazetas G.,** "Analysis of Failures of Guardrail Base–Plates in Scissors Crossovers of the Athens Metro: the Role of Foundation–Structure Interaction", *Engineering Failures Analysis*, Vol. 14, No. 5, pp. 765- 782, 2007.

73. Anastasopoulos I., & **Gazetas G.,** "Foundation-Structure Systems over a Rupturing Normal Fault: I. Observations after the Kocaeli 1999 Earthquake", *Bulletin of Earthquake Engineering*, Vol. 5, No. 3, pp. 253-275, 2007.

74. Anastasopoulos I. & **Gazetas G., "**Behaviour of Structure–Foundation Systems over a Rupturing Normal Fault: II. Analyses, Experiments, and the Kocaeli Case Histories", *Bulletin of Earthquake Engineering* , Vol. 5, No. 3, pp. 277-301, 2007.

75. Gerolymos N., **Gazetas G.,** "A model for Grain-Crushing-Induced Landslides ––Application to Nikawa, Kobe 1995", *Soil Dynamics & Earthquake Engineering*, Vol. 27, No. 6, pp. 803-817, 2007.

76. Gerolymos N., Anastasopoulos I. and **Gazetas G.,** "Opening Ceremony shaft for the Athens 2004 Olympic Games", *Geotechnical Engineering Journal,* Institution of Civil Engineers, Vol. 160, No. 2, pp. 61-71, 2007.

77. Gerolymos N., Vardoulakis I. and **Gazetas G., "**A Thermo–Poro–Viscoplastic Shear-Band Model for Triggering and Evolution of Catastrophic Landslides", *Soils & Foundations,* Vol. 47, No. 1, pp. 11-25, 2007.

78. Anastasopoulos I., Gerolymos N., Drosos V., Kourkoulis R., Georgarakos T., **Gazetas G.,** " Nonlinear Response of Deep Immersed Tunnel to Strong Seismic Shaking", *Journal of Geotechnical and Geoenvironmental Engineering,* ASCE, Vol. 133, No.9, pp. 1067-1090, 2007.

79. Apostolou M., **Gazetas G.,** Garini E., "Seismic Response of Simple Slender Structures with Foundation Uplifting", *Soil Dynamics and Earthquake Engineering*, Vol. 27, pp. 642-654, 2007.

80. Anastasopoulos I., **Gazetas G.,** Bransby F., Davies M.C.R., and Nahas El. A., "Fault Rupture Propagation through Sand : Finite – Element Analysis and Validation through Centrifuge Experiments", *Journal of Geotechnical and Geoenvironmental Engineering,* (ASCE), Vol. 133, No 8, pp. 943-958, 2007.

81. Mylonakis G., Nikolaou S., & **Gazetas G.,** "Footings under Seismic Loading : Analysis and Design Issues with Emphasis on Bridge Foundations", *Soil Dynamics & Earthquake Engineering*, Vol. 26, No. 9, pp. 824-854, 2006.

82. Mylonakis G., Syngros C., **Gazetas G.,** & Tazoh T., "The Role of Soil in the Collapse of 18 Piers of Hanshin Expressway in the Kobe Earthquake", *Earthquake Engineering and Structural Dynamics*, Vol.35, pp. 525-545, 2006.

83. Gerolymos N., **Gazetas G.,** " Winkler Model for Lateral Response of Rigid Caisson Foundations in Linear Soil", *Soil Dynamics & Earthquake Engineering*, Vol. 26, No. 5, pp. 347-361, 2006.

84. Gerolymos N., **Gazetas G.,** "Development of Winkler Model for Static and Dynamic Response of Caisson Foundations with Soil and Interface Nonlinearities", *Soil Dynamics & Earthquake Engineering*, Vol. 26, No. 5, pp. 363-376, 2006.

85. Gerolymos N., **Gazetas G.,** "Static and Dynamic Response of Massive Caisson Foundations with Soil and Interface Nonlinearities–Validation and Results", *Soil Dynamics & Earthquake Engineering,* Vol. 26, No. 5, pp. 377-394, 2006 .

86. **Gazetas G.,** Gerolymos N., Anastasopoulos I., "Response of Three Athens Metro Underground Structures in the 1999 Parnitha Earthquake", *Soil Dynamics & Earthquake Engineering*, Vol.25, pp. 617–635, 2005.

87. Gerolymos N., Apostolou M., **Gazetas G.,** "Neural Network Analysis of the Overturning Response under Near–Fault Type excitation", *Earthquake Engineering and Engineering Vibration,* Vol. 4, No.2, pp 213-228 2005.

88. Assimaki D., Kausel E., and **Gazetas G.,** "Soil –Dependent Topographic Effects : A Case Study from the 1999 Athens Earthquake"*, Earthquake Spectra*, Vol. 21(4), pp. 929-966, 2005.

89. Assimaki D., **Gazetas G.,** and Kausel E., "Effects of Local Soil Conditions on the Topographic Aggravation of Seismic Motion : Parametric Investigation and Recorded Field Evidence from the 1999 Athens Earthquake", *Bulletin of the Seismological Society of America*, Vol. 95(3), pp. 1059–1089, 2005.

90. Gerolymos N., **Gazetas G.,** "Constitutive Model for 1–D Cyclic Soil Behaviour Applied to Seismic Analysis of Layered Deposits", *Soils & Foundations,* Japanese Geotechnical Society Vol. 45 (3), p.p.147–159, 2005.

91. Psarropoulos P., Klonaris G., **Gazetas G.,** "Seismic Earth Pressures on Rigid and Flexible Retaining Walls", *Soil Dynamics and Earthquake Engineering ,* Vol. 25, pp.795–809, 2005

92. Gerolymos N., **Gazetas G.,** "Phenomenological Model Applied to Inelastic Response of Soil–Pile Interaction Systems", *Soils & Foundations,* Vol. 45(4), p.p. 119-132, 2005.

93. Assimaki D., Kausel E., **Gazetas G.,** " Wave Propagation and Soil-Structure Interaction on a Cliff Crest during the 1999 Athens Earthquake", *Soil Dynamics and Earthquake Engineering*, Vol. 25, p.p 513–529, 2005.

94. **Gazetas G.,** Psarropoulos P., Anastasopoulos I., Gerolymos N., "Seismic Behaviour of Flexible Retaining Systems Subjected to Short Duration Moderately-Strong Excitation", *Soil Dynamics and Earthquake Engineering*, Vol. 25, 537–550, 2005 .

95. Dakoulas P. & **Gazetas G.,** "Seismic Effective-Stress Analysis of Caisson Quay Walls : Application to Kobe", *Soils & Foundations,* Vol. 45(4), pp. 133–147, 2005.

96. **Gazetas G.,** "Ten Years after the Great Hanshin Earthquake: Lessons Learned", *Journal of Civil Engineering,* Japanese Committee for Earthquake Engineering, Vol. 90 (1), pp. 47–59, 2005 (translated into Japanese).

97. Travasarou Th. & **Gazetas G.,** " On the Linear Seismic Response of Soils with Modulus Varying as Power of Depth –– the Maliakos Marine Clay", *Soils & Foundations,* Vol. 44, No. 6, pp. 1–17, 2004.

98. Assimaki D. & **Gazetas G.,** "Soil and Topographic Amplification on Canyon Banks and the Athens 1999 Earthquake", *Journal of Earthquake Engineering,* Vol. 8, pp. 1-44, 2004.

99. **Gazetas G. &** Mylonakis G., "Kinematic Pile Response to Vertical P–wave Seismic Excitation", *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 128, pp. 860–867, 2002.

100. **Gazetas G.,** Kallou P.V., and Psarropoulos P.N., "Topography and Soil Effects in the Ms 5.9 Athens Earthquake : The Case of Adames", *International Journal of Natural Hazards*, Vol. 27, pp. 133–169, 2002

101. Nikolaou S., Mylonakis G., **Gazetas G.,** and Tazoh T., "Kinematic Pile Bending during Earthquakes : Analysis and Field Measurements", *Geotechnique,* Vol. 51, pp. 425-440, 2001.

102. Mylonakis G. & **Gazetas G.,** "Seismic Soil-Structure Interaction : Beneficial or Detrimental ?", *Journal of Earthquake Engineering*, Vol. 4, p.p. 277-301, 2000 .

103. Mylonakis G. & **Gazetas G.,** "Lateral Vibration and Internal Forces of Grouped Piles in Layered Soil," *Journal of Geotechnical & Geo-Environmental Engineering*, ASCE, Vol. 125, pp.1-10, 1999.

104. Mylonakis G. and **Gazetas G.,** "Vertical Vibration and Addinional Distress of Grouped Piles in Layered Soil", *Soils and Foundations*, Vol. 38, pp.1-14, 1998

105. Mylonakis G. & **Gazetas G.,** "Settlement and Load Transfer Mechanism of Piles and Pile Groups", *Geotechnique*, Vol. 47, pp. 55-72, 1998.

106. Michaelides O., **Gazetas G.,** Bouckovalas G., & Chrysikou Eu., "Approximate Nonlinear Axial Dynamic Response of Piles", *Geotechnique*, Vol. 47, 33-54, 1998.

107. Michaelides O., Bouckovalas G., **Gazetas G.,** "Non-Linear Soil Properties and Impedances for Axially Vibrating Pile Elements", *Soils and Foundations,* Vol. 38, pp. 129-142, 1998.

108. Mylonakis G., Nikolaou A., & **Gazetas G.,** "Soil-Pile-Bridge Seismic Interaction: Kinematic and Inertial Effects, Part I : Soft Soil", *Earthquake Engineering and Structural Dynamics*, Vol. 26, No. 3, pp. 337-360, 1997.

109. Younis C.J. & **Gazetas G.,** "Dynamic Response of a Tower-Pier System on Viscoelastic Foundation with Frictional Interface", *Engineering Structures*, Vol. 18, pp. 546-557, 1996.

110. Makris N. , **Gazetas G.,** & Delis E., "Dynamic Analysis of Pile-Soil-Structure Interaction", *Geotechnique,* Vol. 46, pp. 33-50, 1996 (T.K. Hsieh Award, Institution of Civil Engineers, London).

111. Michaelidis O., **Gazetas G.,** & Loukakis C., "The January 17, 1995, Kobe Earthquake: the Role of Soil and the Damage in Bridges and Harbors", *Civil Engineering Bulletin, Athens*, No. 224, pp. 33-53, 1996.

112. Uddin, N. & **Gazetas G.,** "Dynamic Response of Concrete-Faced Rockfill Dams, to Strong Seismic Excitations", *Journal of Geotechnical Engineering*, ASCE, Vol. 121, pp. 185-197, 1995

113. **Gazetas G.,** & Uddin N. , "Permanent Deformations on Preexisting Sliding Surfaces in Dams", *Journal of Geotechnical Engineering*, ASCE, Vol 120, No 11, 2041-2061, 1994.

114. Makris N., Badoni D., Delis E., **Gazetas G.,** "Prediction of Observed Bridge Response with Soil-Pile-Structure Interaction", *Journal of Structural Engineering*, ASCE, Vol. 120, No 10, 2992-3011, 1994.

115. Yegian M.K., Ghahraman, V.G., **Gazetas G.,** "1988 Armenia Earthquake, I: Seismological, Geotechnical, and Structural Overview," *Journal of Geotechnical Engineering,* ASCE, Vol. 120, No. 1, 1-20, 1994.

116. Yegian M.K., Ghahraman, V.G., **Gazetas G.,** "1988 Armenia Earthquake, II: Damage Statistics versus Geological and Soil Profiles," *Journal of Geotechnical Engineering,* ASCE, Vol. 120, No. 1, 21-45, 1994.

117. Yegian M.K., Ghahraman, V.G., **Gazetas G.,** "Seismological, Soil and Valley Effects in Kirovakan, 1988 Armenia Earthquake," *Journal of Geotechnical Engineering*, ASCE, Vol. 120, No. 2, 330-348, 1994.

118. Yegian M.K., Ghahraman, V.G. , **Gazetas G.,** "Ground Motion and Soil Response Analyses for Leninakan, 1988 Armenaia Earthquake", *Journal of Geotechnical Engineering*, ASCE, Vol. 120, No. 2, 349-365, 1994.

119. **Gazetas G.,** Fan K., Kaynia A., "Dynamic Response of Pile Groups with Different Configurations," *Soil Dynamics & Earthquake Engineering*, 12, 239-257, 1993.

120. Kavvadas M. & **Gazetas G.** "Kinematic Seismic Response and Bending of Free-head Piles in Layered Soil,", *Geotechnique*, Vol. 43, No. 2, pp. 207-222, 1993.

121. **Gazetas G.** & Dakoulas P., "Seismic Analysis and Design of Rockfill Dams: State of the Art", *Soil Dynamics & Earthquake Engineering*, Voil. 11, No 1, 27-61, 1992

122. Makris N. & **Gazetas G.,** "Displacement Phase Differences in a Harmonically Oscillating Pile," *Geotechnique*, Vol. 42, No. 1, pp. 135-150, 1993.

123. Makris N. & **Gazetas G.,** "Dynamic Soil-Pile Interaction. Part II. Lateral and Seismic Response," *Earthquake Engineering & Structural Dynamics*, Vol. 21, No. 2, pp. 145-162, 1992.

124. Ahmad S. & **Gazetas G.,** "Torsional Stiffness of Arbitrarily-Shaped Embedded Foundations," *Journal of Geotechnical Engrg*., ASCE, Vol. 118, No. 8, pp. 1168-1185, 1992.

125. Ahmad S. & **Gazetas G.,** "Torsional Damping of Arbitrarily-Shaped Embedded Foundations," *Journal of Geotechnical Engrg*., ASCE, Vol. 118, No. 8, pp. 1186-1199, 1992.

126. **Gazetas G.,** Fan K., Kaynia A., Kausel, E., "Dynamic Interaction Factors for Floating Pile Groups," *Journal of Geotechnical Engrg*, ASCE, Vol. 117, No. 10, pp. 1860-1879, 1991.

127. Fan K., **Gazetas G.,** Kaynia A., Kausel, E., Ahmad, S. "Kinematic Seismic Response of Single Piles and Pile Groups," *Journal of Geotechnical Engrg*, ASCE, Vol. 117, No. 12, pp. 1531-1548, 1991.

128. **Gazetas G.,** "Formulae & Charts for Impedance Functions of Surface and Embedded Foundations," *Journal of Geotechnical Engineering*, ASCE, Vol. 117, No. 9, pp. 1363-1381, 1991.

129. **Gazetas G.** & Stokoe K.H., "Free Vibration of Embedded foundations: Theory vs. Experiment," *Journal of Geotechnical Engineering*, ASCE, Vol. 117, No. 9, pp. 1382-1401, 1991.

130. **Gazetas G.** & Makris, N., "Dynamic Analysis of Pile-Soil-Pile Interaction. Part I: Analysis of Axial Vibrations," *Earthquake Engineering and Structural Dynamics*, Vol. 20, No. 2, pp. 115-132, 1991.

131. **Gazetas G.,** "A Study on Lateral Dashpots for Soil-Structure Interaction and its Application to a Simplified Technique", *Soils & Foundations*, Vol. 30, No. 4, 1990.

132. **Gazetas G.,** Dakoulas, P., Papageorgiou A., "Local-Soil and Source Mechanism Effects in the 1986 Kalamata Earthquake," *Earthquake Engineering & Structural Dynamics*, Vol. 19, pp. 431-456, 1990.

133. Hatziconstantinou C., **Gazetas G.**, Tassoulas, J.L., Fotopoulou, M., Kotsanopoulos, P., "Rocking Stiffness of Arbitrarily-Shaped Embedded Foundations," *Journal of Geotechnical Engineering*, ASCE, Vol. 115, No. 4, pp. 455-472, 1989.

134. Fotopoulou M., Kotsanopoulos P., **Gazetas G.**, Tassoulas, J. L. "Rocking Damping of Arbitrarily-Shaped Embedded Foundations," *Journal of Geotechnical Engineering*, ASCE, Vol. 115, No.4, 1989, 4734-490, 1989.

135. **Gazetas G.** & Hatziconstantinou, C.,"Elastic Formulae for Lateral Deflection and Rotation of Arbitrarily Shaped Embedded Foundations," *Geotechnique*, Vol. 38, No. 3, pp. 439-444, 1988.

136. Dobry, R. & **Gazetas G.,** "Simple Methods for Dynamic Stiffness and Damping of Floating Pile Groups," *Geotechnique*, Vol. 38, No.4, pp. 557-574, 1988.

137. Dakoulas, P. & **Gazetas G.,** "Vibration Characteristics of Dams in Narrow Canyons," *Journal of Geotechnical Engineering* ASCE, Vol. 113, No. 8, pp. 899-904, 1987.

138. **Gazetas G.,** "Experience Gained and Questions Raised from the Geotechnical Earthquake Investigation in Kalamata," *Bulletin of the Public Works Research Center*, No. 4, pp. 241-245, 1987.

139. **Gazetas G.** & Tassoulas J. L., "Horizontal Stiffness of Arbitrarily-Shaped Embedded Foundations," *Journal of Geotechnical Engineering* ASCE, Vol. 113, No. 5, pp. 440-457, 1987.

140. **Gazetas G.** & Tassoulas, J.L., "Horizontal Damping of Arbitrarily-Shaped Embedded Foundations," *Journal of Geotechnical Engineering* ASCE, Vol. 113, No. 5, pp. 458-475, 1987.

141. **Gazetas G.,** "Seismic Response of Earth Dams: Some Recent Developments, Soil Dynamics and Earthquake Engineering, Vol. 6, No. 1, 1987, State-of-the-Art Volume, pp.1-48, (presented as Keynote Speech at the 2nd Int. Conf. Soil Dyn. & Earthq. Engrg., June 28-July 3, 1985).

142. Constantinou, M.C. & **Gazetas G.,** "Loading of Anisotropic Quarter Space," *Journal of Engineering Mechanics*, ASCE, Vol. 112, No. 10, pp 1021-1040, 1986.

143. Dobry R. & **Gazetas G.,** "Dynamic Response of Arbitrarily-Shaped Foundations," *Journal of Geotechnical Engineering* ASCE, Vol., 113, No. 2, pp. 109-135, 1986.

144. Dobry, R., **Gazetas G.** , Stokoe, K.H., "Dynamic Response of Arbitrarily-Shaped Foundations Experimental Verification," *Journal of Geotechnical Engineering* ASCE, Vol. 112, No.2,pp. 136-154, 1986.

145. **Gazetas G.,** Dobry, R., Tassoulas, J., "Vertical Response of arbitrarily-Shaped Embedded Foundations," *Journal of Geotechnical Engineering* ASCE, Vol. 111, No. GT6, pp. 750-771, 1985.

146. Dakoulas, P. & **Gazetas G.,** "A Class of Inhomogeneous Shear Models for Seismic Response of Dams and Embankments," *Soil Dynamics and Earthquake Engineering*, Vol. 4, No. 4, pp. 166-182, 1985.

147. Hatziconstantinou, C., **Gazetas G.** & Tassoulas, J.L., "Static Rotational Stiffness of Arbitrarily-Shaped Embedded Foundation," *Scientific Papers, Athens* Vol. 10, No. 4, pp. 1-29, 1986.

148. Dakoulas, P.& **Gazetas G.,** "Seismic Shear Strains and Seismic Coefficients in Dams and Embankments, " *Soil Dynamics and Earthquake Engineering*, Vol. 5, No. 2, pp. 75-83, 1986.

149. Dakoulas, P. & **Gazetas G.,** "Seismic Lateral Vibration of Embankment Dams in Semi-Cylindrical Valleys," *Earthquake Engineering and Structural Dynamics*, Vol. 14, pp. 19-40, 1986.

150. Gazetas G., T, J.L., Dobry, R., O'Rourke, M.J., "Elastic Settlement of Arbitrarily Shaped Foundations Embedded in Halfspace," *Geotechnique,* Vol. 35, No.3, pp. 339-346, 1985.

151. Gazetas G. & Dobry, R., "Horizontal Response of Piles in Layered Soils," *Journal of Geotechnical Engineering* ASCE, Vol. 110, No. GT1, pp. 20-40, 1984. (Received the James Croes Medal of ASCE, 1985.)

152. Gazetas G., "Seismic Response of End-Bearing Single Piles," International *Journal of Soil Dynamics and Earthquake Engineering*, Vol. 3, No. 2, pp. 82-93, 1984.

153. Gazetas G. & Dobry R., "Simple Radiation Damping Model for Piles and Footings," *Journal of Engineering Mechanics* ASCE, Vol. 110, No.6, pp. 937-956, 1984. (Received the 1984 Outstanding Publication Award of the Hudson Section of ASCE).

154. Constantinou M.C., **Gazetas G.**, Tadjbakhsh I., "Stochastic Seismic Sliding of Rigid Mass Against Asymmetric Coulomb Friction, " *International Journal of Earthquake Engineering and Structural Dynamics*, Vol. 12, pp. 777-793, 1984.

155. Constantinou M.C. & **Gazetas G.,** "Torsional Vibration on Anisotropic Halfspace," *Journal of Geotechnical Engineering* ASCE, Vol. 110, No. GT11, pp. 1549-1558, 1984.

156. Gazetas G., "Analysis of Machine Foundation Vibrations: State-of-the-Art" *International Journal of Soil Dynamics and Earthquake Engineering*, Vol. 2, No. 1, pp. 2-43, 1983. (Keynote Lecture at the 1st Int. Conf. on Soil Dyn. & Earthq. Engrg., July 13-15, 1982.)

157. Krishnan, R., **Gazetas G.**, Velez, A., "Static and Dynamic Lateral Deflexions of Piles in Non-homogeneous Stratum," *Geotechniqu*e, Vol. 23, No. 3, pp. 307-325. 1983.

158. Velez A., **Gazetas G.**, Krishnan, R., "Lateral Dynamic Response of Constrained-Head Piles," *Journal of Geotechnical Engineering* ASCE, Vol. 109, No. GT8, pp. 1063-1081, 1983.

159. Gazetas G., "Stresses and Displacements in Cross-Anisotropic Soils:, *Journal of the Geotechnical Engineering Division* ASCE, Vol. 108, GT4, pp. 532-553, 1982. (Received the 1982 Outstanding Publication Award of the Hudson Section of ASCE).

160. Gazetas G., Debchaudhury A., Gasparini D.A., "Stochastic Estimation of the Non-linear Seismic Response of Earth Dams", *International Journal of Soil dynamics and Earthquake Engineering*, Vol. 1, No. 1, pp. 39-46, 1982.

161. Tsiatas, G. & **Gazetas G.,** "Plane-Strain and Shear Free Vibration Characteristics of Earth and Rockfill Dam", *International Journal of Soil Dynamics and Earthquake Engineering*, Vol. 1, No. 4, pp. 150-160, 1982.

162. Gazetas G., "Shear Vibrations of Vertically Inhomogeneous Earth Dams", *International Journal for Numerical and Analytical Methods in Geomechanics*, Vol.6, pp. 290-241, 1982.

163. Gazetas G., "Vibrational Characteristics of Soil Deposits with Variable Wave Velocity", *International Journal for Numerical and Analytical Methods in Geomechanics*, Vol. 6, pp. 1-20, 1982.

164. **Gazetas G.,** "Axisymmetric Parabolic Loading of Cross Anisotropic Halfspace", *Journal of the Geotechnical Engineering Division* ASCE, Vol. 108, GT, pp. 654-660. 1982.

165. **Gazetas G.,** "Progressive Collapse of Rigid-Plastic Circular Foundations", *Journal of the Engineering Mechanics Division* ASCE, Vol. 107, EM6, 493-508, 1982.

166. **Gazetas G.,** "Longitudinal Vibrations of Embankment Dams", *Journal of the Geotechnical Engineering Division ASCE*, Vol. 107, GT1, PP. 21-40, 1981. (Received the Alfred Noble Prize from the Engineering Societies of America).

167. **Gazetas G.,** "Torsional Displacements and Stresses in a Non-homogeneous Soil", *Geotechnique*, Vol. 31, No. 4, pp. 487-496, 1981.

168. **Gazetas G.,** "Strip Foundations on Cross-Anisotropic Soil Layer Subjected to Static and Dynamic Loading", *Geotechnique*, Vol. 31, No. 2, pp. 161-179, 1981.

169. **Gazetas G.,** Debchaudhury, A. and Gasparini, D.A., "Random Vibration Analysis of Earth Dam Seismic Response", *Geotechnique*, Vol. 31, No. 2, pp. 261-279. 1981.

170. **Gazetas G.,** "Machine Foundations on Deposits of Soft Clay Overlain by a Weathered Crust", *Geotecnhnique*, Vol. 31, No. 3, pp. 387-398, 1981.

171. **Gazetas G.,** "Dynamic Compliance Matrix of Rigid Strip Footing Bonded to a Viscoelastic Cross-Anistropic Halfspace", *International Journal of Mechanical Sciences*, Vol.23, No. 9, pp. 547-560, 1981.

172. **Gazetas G.,** "Indentation of Anistropic Halfspace by a Yielding Circular Foundation", *Journal of the Engineering Mechanics Division* ASCE, Vol. 107, EM4, pp. 695-704, 1981.

173. **Gazetas G.,** "Ultimate Behavior of Continuous Footings in Tensionless Contact with a Three-Parameter Soil Model", *Journal of Structural Mechanics*, Vol. IX, No. 3, pp. 339-362, 1981.

174. Gasparini D., Debchaudhury A., **Gazetas G.,** "Random Vibration Analysis of Shear Beams", *International Journal of Earthquake Engineering and Structural Dynamics* Vol. 9, No. 6, pp. 599-612, 1981

175. **Gazetas G.,** "A New Dynamic Model for Earth Dams Evaluated Through Case Histories", *Soils and Foundations, Journal of the Japanese Society for Soil Mechanics and Foundations*, Vol. 21, No.1, pp. 29-40, 1981.

176. **Gazetas G.,** "Vertical Oscillation of Earth and Rockfill Dams: Analysis and Field Observation", *Soils and Foundations, Journal of the Japanese Society for Soil Mechanics and Foundations*, Vol. 21, No. 4, pp. 265-277, 1981.

177. **Gazetas G.,** "Variational Estimation of Raft Settlement on Cross-Anisotropic Soil", Soil and Foundations, *Journal of the Japanese Society for Soil Mechanics and Foundation*, Vol. 21, No.4, pp. 109-116, 1981.

178. **Gazetas G.,** "Static and Dynamic Displacements of Foundations on Heterogeneous Multi-Layered Soils", *Geotechnique*, Vol. 30, No. 2, pp. 159-177, 1980.

179. **Gazetas G. &** Roesset J.M., "Vertical Vibrations of Machine Foundations", *Journal of the Geotechnical Engineering Division* ASCE, Vol. 105, No. GT12, pp. 1435-1454, 1979.

180. **Gazetas G &** Yegian M.K., "Shear and Rayleigh Waves in Soil Dynamics", *Journal of the Geotechnical Engineering Division* ASCE, Vol. 105, No. GT12, pp. 1455-1470, 1979.

181. **Gazetas G.** & Tassios T.P., "Elastic-Plastic Slabs on Elastic Foundation", *Journal of the Structural Engineering Division* ASCE, Vol. 104, No. ST4, pp 621-636, April, 1978.

182. **Gazetas G.,** "Soil Effects on the Dynamic Response of Nuclear Plants Subjected to Earthquake Motions: Part I: Liquefaction, Part II: Dynamic Soil-Structure Interaction", *Technica Chronica*, No. 3, pp. 21-40, Athens, 1978.

183. Tassios T.P.& **Gazetas G.,** "Plastic Analysis of Rectangular Mat Foundations Resting on Elastic Subgrade", *Scientific Papers*, Vol. 1, No. 1, pp. 25-56, 1977.

Major Discussions in Journals

184. Michaelides O., & **Gazetas G.,** "Impedance Functions of Piles in Inhomogeneous Media", *Journal of Geotechnical Engineering*, ASCE, Vol. 121, No.2, pp. 234-236, 1995.

185. Giannakou A., Gerolymos N., **Gazetas G.,** Tazoh T., Anastasopoulos I.."Closure to Seismic Behavior of Batter Piles: Elastic Response", *Journal of Geotechnical and Geoenvironmental Engineering,* ASCE, Vol. 139(1), pp. 185–187, 2013

186. **Gazetas G.,** "Simplified Approach for Pile and Foundation Interaction Analysis" *Journal of Geotechnical Engineering*, ASCE, Vol. 121, No. 2, pp. 228-230, 1995

187. **Gazetas G.** & Stokoe, K.H., "Free Vibration of Embedded Foundations: Theory vs. Experiment," Discussion Closure, *Journal of Geotechnical Engineering*, ASCE, 118, pp. 1862-1867, 1992

188. **Gazetas G.,** "Evaluation of in situ Effective Shear Modulus from Dispersion Measurements," Discussion, *Journal of Geotechnical Engineering* ASCE, Vol. 118, No. 7, pp. 1120-1122, 1992.

189. Constantinou M.C. & **Gazetas G.,** "Torsional Oscillations on Anisotropic Halfspace," Discussion, *Int. Journal of Solids and Structures*, Vol. 27, No. 9, pp 1209-1212, 1991.

190. **Gazetas G.,** "Seismic Analysis of Concrete Face Rockfill Dams," Discussion *Journal of Geotechnical Engineering*, ASCE, Vol. 113, No. 10, 1247-1251, 1987.

191. **Gazetas G.,** Discussion of "Rocking Vibration of Footings," by H.R. Sreekantiah, *Journal of Geotechnical Engineering* ASCE, Vol. 110, No. GT1,pp. 128-131, 1984.

Monographs , Chapters in Books , Special Publications

192. Tazoh T., Sato M. Jang J. Taji Y., **Gazetas G.** & Anastasopoulos I. "Kinematic Response of Batter Pile Foundation : Centrifuge Tests", *Soil–Foundation–Structure–Orense,* Chouw& Pender (eds), Taylors& Francis Group, London, ISBN 978-0-415-60040-8, 2010

193. Ziotopoulou A. & **Gazetas G.** "Are Current Design Spectra Sufficient for Soil-Structure Systems on Soft Soils?, *Advances in Performance-Based Earthquake Engineering,* Springer, M. Fardis, Editor, Chapter 8, pp. 79-87, 2010.

194. **Gazetas G., Anastasopoulos I. and Apostolou M.** "Shallow and Deep Foundations Under Fault Rupture or Strong Seismic Shaking", *Earthquake Geotechnical Engineering ,* Springer, K. Pitilakis (ed), Chapter 9, pp. 185-215, 2007.

195. **Gazetas G.,** Anastasopoulos I., Gerolymos N., Mylonakis G., Syngros C., "The Collapse of the Hanshin Expressway (Fukae) Bridge, Kobe 1995 : Soil-Foundation-Structure Interaction, Reconstruction, Seismic Isolation", *Entwicklungen in der Bodenmechanik, Bodendynamik und Geotechnik,* Festschrift zum 60. Geburtstag von Univ.-Professor Dr.-Ing.habil. Stavros Savidis, (Herausgegeben von Dr. –Ing.Frank Rackwitz), pp. 93-120, 2006.

196. **Gazetas G** , "Analytical and experimental estimation of the ground motions in the meizoseismal region of the Athens 7–9–99 earthquake. Research Report to OASP, Volumes 1–3, 2001

197. Mylonakis G., **Gazetas G.,** Gerolymos N., and Anastasopoulos J., "Detrimental Role of Soil–Structure Interaction and the Collapse of the 18–Pier Fukae Bridge in Kobe", Recent Advances in Applied Mechanics, [Honorary Volume for Professor A.N. Kounadis, J.T. Katsikadelis, D.E Beskos., and E.Gdoutos, Editors] , pp 145–159, 2000

198. **Gazetas G**., & Psarropoulos P.N.: "Field Observations and Numerical Simulations", *Chapter 3, in 3D Site Effects and Soil–Foundation Interaction in Earthquake and Vibration Risk Evaluation*, Edited by: E. Faccioli, R. Paolucci and M. Vanini, 1998.

199. **Gazetas G**., & Mylonakis G., "Seismic Soil-Structure Interaction : New Evidence and Emerging Issues", *Soil Dynamics III,* American Society of Civil Engineers, (ASCE), Specialty Geotechnical Conference, Seattle, 1998, Vol. 2, p.p. 1119-1174.

200. **Gazetas G.,** "Dynamic Soil-Structure Interaction During Earthquakes", *Proceedings of the Advanced Study Course SERINA -- Seismic Risk : An Integrated Seismological, Geotechnical and Structural Approach*, Published by ITSAK, Thessaloniki, 1997, pp. 301-354.

201. **Gazetas G.,** & Michaelides Od., "Shallow Foundations : Numerical Validation Based on Pseudostatic Finite Element Analyses", *Seismic Behaviour and Design of Foundations and Retaining Structures*, E. Faccioli, R. Paolucci, (ed.), Report to European Commission, p.p. 36-39, 1996.

202. **Gazetas G.,** & Nikolaou A., "Shallow Foundations : Deep Foundations*", Seismic Behaviour and Design of Foundations and Retaining Structures*, E. Faccioli, R. Paolucci, (ed.), European Commission, p.p. 115-129, 1996.

203. **Gazetas G.,** "The Aegion (Greece) 15-6-1995 Earthquake: Analysis of Damaged Soft-First-Story Buildings with Emphasis on the Collapse of the Administration Building of E.B.O.", *TEE Bulletin*, Athens, November 1995.

204. **Gazetas G.** & Bouckovalas, G., "Seismic Analysis of Retaining Walls with Emphasis on Gravity Quaywalls," *Bulletin of the Greek Society of Civil Engineers*, No. 209, 1992, pp. 34-46.

205. **Gazetas G.,** Fan, K., Tazoh, T., Shimizu, K., Kavvadas, M., & Makris, N., "Seismic Pile-Group--Structure Interaction", *Piles under Dynamic Loads*, ASCE, S. Prakash, ed., pp. 56-93, 1992.

206. **Gazetas G.,** & Makris, N. "Dynamic Response of Pile Groups to Axial Harmonic Excitation," *Analysis and Design in Concrete and Soil Engineering*, *A Volume honoring Prof. T.P. Tassios,* 1991.

207. **Gazetas G.,** "Foundation Vibrations," *Foundation Engineering Handbook, 2nd Edition,* H.Y. Fang, Ed., Kluwer / Springer, Chapter 15, pp. 553-593, 1991.

208. **Gazetas G.,** "Soil Dynamics: an Overview" *Dynamics of Foundations and Underground Structures*, Elsevier Applied Science, Chapter 1, pp. 1-39, 1987.

209. **Gazetas G.,** "Simple Physical Methods for Foundation Impedances," *Dynamics of and Underground Structures* Elsevier Applied Science, Chapter II, pp. 40-97, 1987.

210. **Gazetas G.** *"Deformational Soil Anisotropy : Experimental Evaluation and Mathematical Modeling"*, Case Institute of Technology, Case Western Reserve University, Publication N. 8102, pages 100, 1981.

211. Tassios, T.P. and **Gazetas G.,** *Pre-draft of a New Greek Aseismic Code*, Monograph Published by the N.T. University of Athens, 170 pages, 1979.

Volumes of Conference Proceedings

212. S. Nikolaou, N. Antonaki, R. Kourkoulis, F Gelagoti, I Georgiou, **G Gazetas** Geotechnical engineering challenges in the path to resilient infrastructure Geo-Risk 2017, 206-215 1 2017.
213. R Kourkoulis, F Gelagoti, I Georgiou, S Karamanos, **G Gazetas**, On the Adequacy of Existing Foundation Schemes for Offshore Wind Turbines Subjected to Extreme Loading ASME 2017 36th International Conference on Ocean, Offshore and Arctic … 2017.
214. A Zafeirakos, **G Gazetas**, E Garini, A Fagot, C Prüm, Crucial aspects for the design and performance of anchored steel sheet pile walls in seismic regions, Program & Abstracts: 3rd International Conference on Performance-based … 2017.
215. I Anastasopoulos, **G Gazetas**, JA Knappett, M Loli, Use of Micro-Pile Inclusions to Enhance Foundation Rocking Isolation 1st International Conference on Natural Hazards & Infrastructure (ICONHIC 2016) 2016.
216. A Agalianos, I Anastasopoulos, L Sakellariadis, **G Gazetas,** Numerical simulation of the Seismic Response of Motorway Bridges in the Transverse direction: Critical Factors 1st International Conference on Natural Hazards & Infrastructure (ICONHIC 2016) 2016.
217. Sakellariadis, A Agalianos, I Anastasopoulos, **G Gazetas**, Numerical simulation of the seismic response of a typical motorway bridge in the longitudinal direction: The effect of abutment stoppers. 1st International Conference on Natural Hazards & Infrastructure (ICONHIC 2016) 2016.
218. Agalianos A., Sakellariadis L., Anastasopoulos I., **Gazetas G.**, "Simplified Method For Seismic Analysis of Motorway Bridges", International Journal of Bridge Engineering (IJBE), 3 (1): 49–54, 2015.
219. A Agalianos, L Sakellariadis, I Anastasopoulos, **G Gazetas**, SIMPLIFIED METHOD FOR SEISMIC ANALYSIS OF MOTORWAY BRIDGES, INTERNATIONAL JOURNAL OF BRIDGE ENGINEERING 3 (1), 49-54 2015.
220. H Kimata, T Tazoh, J Jang, Y Taji, Y Sakai, **G Gazetas**, Section C Structures-Seismic Behavior of Batter-Pile Foundation Based on Centrifuge Tests. Progress in Scale Modeling, Volume II, 175-191 2015.
221. K Papadopoulou, **G Gazetas**, Slope instabilities in clayey marls: two case studies 2015.
222. Tsatsis A., Anastasopoulos I., and **Gazetas G**., "Buried Pipelines Subjected to Normal Fault: Simulation vs Experiment", Proceedings of the XVI ECSMGE, Geotechnical Engineering for Infrastructure and Development, September, Edinburgh, UK, 2015.

223. M Loli, JA Knappett, MJ Brown, I Anastasopoulos, **G Gazetas** "Centrifuge testing of a bridge pier on a rocking isolated foundation supported on unconnected piles" Proceedings of 6th ICEGE, paper 362 2015.

224. R Kourkoulis, I Georgiou, **G Gazetas**, Seismic Response of Suction Caissons: effect of two-directional Loading 6th International Conference on Earthquake Geotechnical Engineering 2015.

225. E Garini, R Zakkak, I Anastasopoulos, G Gazetas, Seismic performance of gravity retaining walls subjected to strong excitation, 2015.

226. FM Gelagoti, RS Kourkoulis, **G Gazetas**, Estimation of near-field ground motion at the Bolu Viaduct during the 1999 Düzce earthquake 2015.

227. Tasiopoulou P., Gerolymos N., **Gazetas G**., "Class a Prediction for Seismic Centrifuge Modeling of Multi-Block Quay-Wall: Undrained (Plaxis) Versus Coupled (Flac) Effective Stress Analysis". Proceedings of 5th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete Island, Greece, 2015.

228. D Dais, **G Gazetas**, F Gelagoti, R Kourkoulis, "Multistory building frames and shear walls founded on "rocking" spread footings", 16th European Conference on Earthquake Engineering, 2018.

229. Anastasopoulos I., Zarzouras O., Drosos V., **Gazetas G**., "Caisson Foundations Subjected to Seismic Faulting: Reduced-Scale Physical Modeling" Experimental Research in Earthquake Engineering, 405-421, 2015.

230. Anastasopoulos I., Anastasopoulos P.Ch., Agalianos A., Sakellariadis L. (2015). "On the Development of a Rapid Response System for Motorways", 6th International Conference on Earthquake Geotechnical Engineering, 1–4 November, Christchurch, New Zealand.

231. Argyroudis S., Selva J., Kakderi K. and Pitilakis K., (2015). "Effect of Spatial Correlations of Ground Motion Intensities in the Seismic Risk Assessment of Interconnected Lifeline Networks and Transportation Infrastructures", 6th International Conference on Earthquake Geotechnical Engineering, 1-4 November 2015, Christchurch, New Zealand.

232. Gelagoti F., Kourkoulis R., Gazetas G., (2015), "Estimation of Near-Field Ground Motion at the Bolu Viaduct during the 1999 Düzce Earthquake", 6th International Conference on Earthquake Geotechnical Engineering, 1-4 November , Christchurch, New Zealand.

233. Garini E.,Gazetas G., I. Anastasopoulos, (2015). "3-Dimensional Rocking and Sliding Case Histories in the 2014 Cephalonia, Greece Earthquakes", 6th International Conference on Earthquake Geotechnical Engineering, 1-4 November, Christchurch, New Zealand.

234. Tsatsis A., Anastasopoulos I., and Gazetas G. (2015)."Buried Pipelines Subjected to Normal Fault: Simulation vs Experiment", Proceedings of the XVI ECSMGE, Geotechnical Engineering for Infrastructure and Development, September, Edinburgh, UK.

235. Gelagoti F., Lekkakis P., Kourkoulis R. and Gazetas G., (2015). "Estimation of Elastic and Non-linear Stiffness Coefficients for Suction Caisson Foundations", Proceedings of the XVI ECSMGE, Geotechnical Engineering for Infrastructure and Development, September, Edinburgh, UK.

236. Anastasopoulos I., Sakellariadis L., Agalianos A. (2015). "Simplified method to estimate the seismic vulnerability of bridges considering soil-structure interaction", Proc. SECED 2015 Conference: Earthquake Risk and Engineering towards a Resilient World, 9–10 July, Cambridge, UK.

237. Gerolymos N., Tasiopoulou P., and Gazetas G. (2015)."Seismic Performance of Block-Type Gravity Quay-Wall: Numerical Modeling Versus Centrifuge Experiment", Proc. SECED 2015 Conference: Earthquake Risk and Engineering towards a Resilient World, 9–10 July, Cambridge, UK.

238. Anastasopoulos I., Loli M., Antoniou M., Knappett J., Brennan A., and Gazetas G. (2015). "Centrifuge Testing of Multi-Block Quay Walls", Proc. SECED 2015 Conference: Earthquake Risk and Engineering towards a Resilient World, 9–10 July, Cambridge, UK.

239. Tsatsis A., Kourkoulis R. and Gazetas G. (2015)."Buried Pipelines subjected to Ground Deformation Caused by Land Slide Triggering", COMPDYN 2015 , 5th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete Island, Greece, May 25–27, Greece.

240. Tasiopoulou P., Gerolymos N., and Gazetas G. (2015). "Class a Prediction for Seismic Centrifuge Modeling of Multi-Block Quay-Wall: Undrained (PLAXIS) versus Coupled (Flac) Effective Stress Analysis" , COMPDYN 2015 , 5th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete Island, Greece, May 25–27, Greece.

241. Sakelariadis L., Agalianos A., Anastasopoulos I., **Gazetas G. "**Seismic vulnerability of a three-span bridge considering soil–structure interaction**",** *7th Hellenic Conference on Soil Mechanics and Geotechnical Engineering,* Athens , 5-7 November 2014

242. Christou O.L., Anastasopoulos I., **Gazetas G.** "Foundation of Offshore Wind Turbine with Monopile", *7th Hellenic Conference on Soil Mechanics and Geotechnical Engineering,* Athens, 5-7 November 2014

243. Kourkoulis R., Gelagoti F., Loli M., **Gazetas G.** "Response of Container Port Cranes founded on Zarbor Quay Walls during Earthquake Shaking", *7th Hellenic Conference on Soil Mechanics and Geotechnical Engineering,* Athens, 5-7 November 2014

244. Kourkoulis R., Gelagoti F., Lekkakis P., **Gazetas G.** "Seismic Response of offshore wind turbine foundations founded on Suction Caissons", *7th Hellenic Conference on Soil Mechanics and Geotechnical Engineering,* Athens, 5-7 November 2014

245. Garini E., **Gazetas G.,** Anastasopoulos I. "Retaining Wall Dynamic Response Under Horizontal Earthquake Excitation". *7th Hellenic Conference on Soil Mechanics and Geotechnical Engineering,* Athens, 5-7 November 2014

246. Theofilou M., Anastasopoulos I., **Gazetas G.** "A Novel Hybrid Foundation for Offshore Wind Turbines", *7th Hellenic Conference on Soil Mechanics and Geotechnical Engineering,* Athens, 5-7 November 2014

247. Panagoulias S., Garini E., **Gazetas G.** "The Canterbury Earthquakes: Elastic Response Spectra, Fourier Amplitude and Dynamic Soil Amplification", *7th Hellenic Conference on Soil Mechanics and Geotechnical Engineering,* Athens, 5-7 November 2014

248. Papadopoulou K., **Gazetas G.** "Bearing Capacity of Shallow Foundations on Two-Layer Clay Soil", *7th Hellenic Conference on Soil Mechanics and Geotechnical Engineering,* Athens, 5-7 November 2014

249. **Gazetas G.,** "Some New Trends in Seismic Design of Bridge-Pier Foundations", *Proceedings of the International Conference IBSBI 2014*, "Innovations on Bridges and Soil-Bridge Interaction", October 16 -18, Athens, Greece, 2014.

250. Agalianos Ath., Sakellariadis L., Anastasopoulos I., **Gazetas G.,** "Simplified Method for Seismic Analysis of Motorway Bridges" *Proceedings of the International Conference IBSBI 2014,* "Innovations on Bridges and Soil-Bridge Interaction", October 16 -18, Athens, Greece, 2014.

251. Tsatsis A., Anastasopoulos I. and **Gazetas G.,** "Shaking table tests of a rocking bridge pier on improved soil", *Second European Conference on Earthquake Engineering and Seismology*, Istanbul, Aug. 25-29, 2014

252. Gelagoti F., Kourkoulis R., Tsirantonaki D., **Gazetas G.,** "2-Dimensional non-linear valley effects at Heathcote valley during the 2011 Canterbury Earthquake: A case study", *Second European Conference on Earthquake Engineering and Seismology*, Istanbul, Aug. 25-29, 2014

253. Kourkoulis R., Anastasopoulos I., Gelagoti F., Lekkakis P., Christou Olga-Lida and **Gazetas G.**, "Seismic Response of off-shore wind turbines founded on Monopiles or suction caissons: a comparison*", Second European Conference on Earthquake Engineering and Seismology*, Istanbul, Aug. 25-29, 2014

254. Kourkoulis R., I. Gelagoti F., Loli M., and **Gazetas G.**, "Interplay of container port cranes and Quay-Walls during earthquake shaking", *Second European Conference on Earthquake Engineering and Seismology*, Istanbul, Aug. 25-29, 2014

255. Tasiopoulou P., Gerolymos N. and **Gazetas G.**,"Seismic Effective Stress Analysis of Gravity Block Type Quay Walls : Application to Piraeus Port", *Second European Conference on Earthquake Engineering and Seismology*, Istanbul, Aug. 25-29, 2014

256. Garini E. and **Gazetas G.** Elastic", "Constant–Ductility" and "Sliding" Spectra as basis of inelastic response prediction", *Second European Conference on Earthquake Engineering and Seismology*, Istanbul, Aug. 25-29, 2014

257. Karatzetzou A., Fotopoulou S., Riga E. Karapetrou S., Tsinidis G., Garini E., Pitilakis K., Gerolymos N., and **Gazetas G.**, "A comparative study of elastic and nonlinear soil response analysis", *Second European Conference on Earthquake Engineering and Seismology*, Istanbul, Aug. 25-29, 2014

258. Smyrou E..Bal. I.E. Tasiopoulou P. and **Gazetas G.** "Seismic Behavior of Shallow-Foundation Long-Period Structures in Liquefiable Soils", *Proceedings of the 10th National Conference in Earthquake Engineering,* Earthquake Engineering Research Institute, Anchorage, Alaska, 21-25 July, 2014.

259. Bal. I.E., Smyrou E., Tasiopoulou P. and **Gazetas G.** "Determination of Liquefaction in Time Domain Using Wavelet Analysis", *Proceedings of the 10th National Conference in Earthquake Engineering,* Earthquake Engineering Research Institute, Anchorage, Alaska, 21-25 July, 2014

260. Kokkali P., Abdoun T., Anastasopoulos I., Kourkoulis R., Gelagoti F., **Gazetas G.** "Experimental Investigation of the Rocking Response of SDOF Systems on Sand", Proc. 8th International Conference on Physical Modelling in Geotechnics 2014 (ICPMG2014), Perth, Australia, 14-17 January, 2014.

261. Kimata H.,. Tazoh T., Jang J., Taji Y. Sakai Y., **Gazetas G.** "Seismic Behavior of Batter-Pile Foundation Based on Centrifuge Tests", Seventh International Symposium on Scale Modeling (ISSM-7), Japan, 2013.

262. Anastasopoulos I., **Gazetas G.** "Stratoni Tailings Dams : Analysis of Fault Rupture Propagation", *2ο National Conference of Dams & Reservoirs*, 7-8 November, Athens, 2013.

263. Garini E., Gelagoti F., **Gazetas G.** " Asterios Earthfill Dam : Seismic Analysis", *2ο National Conference of Dams& Reservoirs,* 7-8 November, Athens, 2013.

264. **Gazetas G.** "Soil–Foundation–Structure Systems Beyond Conventional Seismic "Failure Thresholds*", 18th ICSMGE International Conference on Soil Mechanics and Geotechnical Engineering , paper for Ishihara lecture,* 2-5 September, Paris, France, 2013.

265. **Gazetas G.** "Simplified Nonlinear Stiffness and Damping For Rocking Foundations", *International Conference on Earthquake Geotechnical Engineering, from Case Histories to Practice;* In the Honour of Prof .Kenji Ishihara, Istanbul, Turkey 17–19 June 2013.

266. Garini Ev., Panagoulias St., Tasiopoulou P., **Gazetas G**. "Canterbury Earthquakes : The Resthaven Records And Soil Amplification Response", *International Conference on Earthquake Geotechnical Engineering, from Case Histories to Practice;* In the Honor of Prof. Kenji Ishihara*,* 17-19 June, Istanbul, Turkey , 2013.

267. Kouroussis G., Anastasopoulos I., **Gazetas G.,** and Verlinden O. "Three Dimensional Finite Element Modelling of Dynamic Pile-Soil-Pile Interaction in Time Domain", *4th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering,* (COMPDYN), 12-14 June, Kos Island, Greece, 2013.

268. **Gazetas G.,** "Inconclusive Case Histories in Earthquake Geotechnics from Christchurch", *Seventh International Conference on Case Histories in Geotechnical Engineering,* Chicago, April 29-May 4, 2013.

269. Papadopoulou K., **Gazetas G.** "Lessons from Revisiting Three Cases of Slope Failure", *Seventh International Conference on Case Histories in Geotechnical Engineering,* Chicago, April 29-May 4, 2013

270. **Gazetas G.,** "Should Response Spectra be the Basis of Designing Strongly Inelastic and SSI Systems ?", *Proceedings of the 3rd International Symposium on Advances in Urban Safety*, Nanjing, China, 24-25 November, 2012

271. Manoledaki A.-A., Drosos V., Anastasopoulos I., Vintzileou E., **Gazetas G.** "Experimental assessment of the seismic response of three-leaf stone masonry walls, with due consideration to soil–structure interaction", *Proceedings of the 15th World Conference on Earthquake Engineering (WCEE)*, 24-28 September, Lisbon, Portugal, 2012

272. **Gazetas G.** "Some Presumptions on the Nature of Base Excitation may Erroneously Affect the Response of Strongly Inelastic Systems", *Proceedings of the 15th World Conference on Earthquake Engineering (WCEE)*, 24-28 September, Lisbon, Portugal, 2012.

273. Bal I.E., Smyrou L., Tasiopoulou P., **Gazetas G.** "Understanding the Characteristics of Christchurch Earthquake (2011) by Observing SDOF Systems", *Proceedings of the 15th World Conference on Earthquake Engineering (WCEE)*, 24-28 September, Lisbon, Portugal, 2012.

274. Loli M., Anastasopoulos I., **Gazetas G.** "Response of Historic Masonry Structures to Tectonic Ground Displacements", *Proceedings of the 15th World Conference on Earthquake Engineering (WCEE)*, 24-28 September, Lisbon, Portugal, 2012.

275. Zeris C., Koutras A., **Gazetas G.** "Seismic Performance of a Typical Existing Core-Frame RC Building with Soil Structure Interaction", *Proceedings of the 15th World Conference on Earthquake Engineering (WCEE)*, 24-28 September, Lisbon, Portugal, 2012.

276. Tasiopoulou P., Smyrou E., Bal I.E., **Gazetas G.** "Bridge Pile – Abutment – Deck in Interaction in Laterally Spreading Ground : Lessons from Christchurch", *Proceedings of the 15th World Conference on Earthquake Engineering (WCEE)*, 24-28 September, Lisbon, Portugal, 2012.

277. Kouroussis G., Anastasopoulos I., **Gazetas G.,** Conti C., Verlinden O. " Effect of the Track/Soil Coupling in the Railway-Induced Ground Vibrations", *Proceedings of the 19th International Congress on Sound and Vibration*, 8-12 July, Vilnius, Lithuania, 2012

278. Anastasopoulos I., Loli M., Gelagoti F., Kourkoulis R., and **Gazetas G.** "Nonlinear Soil–Shallow Foundation Interaction: Numerical Analysis", *Proceedings of the First Bulletin of the Second International Conference on Performance–Based Design in Earthquake Geotechnical Engineering,* 28-30 May, Taormina (Italy), 2012

279. Drosos V., Georgarakos T., Loli M., Anastasopoulos I., **Gazetas G.** "Nonlinear Soil–Foundation Interaction: An Experimental Study on Sand", *Proceedings of the First Bulletin of the Second International Conference on Performance–Based Design in Earthquake Geotechnical Engineering,* 28-30 May, Taormina (Italy), 2012

280. Garini Ev. & **Gazetas G.** "The Christchurch 2011 Earthquake: Elastic and Perfectly-Plastic Response Potential of Selected Ground Motions", *Proceedings of the First Bulletin of the Second International Conference on Performance –Based Design in Earthquake Geotechnical Engineering,* 28-30 May, Taormina (Italy), 2012

281. Garini Ev. & **Gazetas G.** "Destructiveness of Earthquake Ground Motions: "Intensity Measures" versus Sliding Displacement", *Proceedings of the First Bulletin of the Second International Conference on Performance –Based Design in Earthquake Geotechnical Engineering,* 28-30 May, Taormina (Italy), 2012

282. Anastasopoulos I., Bouziou D., **Gazetas G.** "3D Nonlinear Dynamic Analysis of a Bridge Pier supported on a Pilegroup : Towards a New Design Philosophy", *Proceedings of the First Bulletin of the Second International Conference on Performance –Based Design in Earthquake Geotechnical Engineering,* 28-30 May, Taormina (Italy), 2012

283. Gerolymos N., Zafeirakos Θ., **Gazetas G.,** "Some new Thoughts on the Performance-based Design of Caisson Supported Bridges", *Proceedings of the International Conference, Innovations on Bridges and Soil-Bridge Interaction,* 13-15 October, Athens, 2011

284. Tsatsis A., Kourkoulis R., Anastasopoulos I., **Gazetas G.,** "Bridge Pier Founded on Pile-Group Ductile Design Against Faulting", *Proceedings of the International Conference, Innovations on Bridges and Soil-Bridge Interaction,* 13-15 October, Athens, 2011.

285. Giannakos S., Gerolymos N. , **Gazetas G.,** "Single Pile versus Pile Group Lateral Response under Asymmetric Cyclic Loading", *Proceedings of the 4th Japan – Greece Workshop, Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage,* 6-7 October, Kobe, Japan, 2011.

286. Tasiopoulou P., **Gazetas G.,** "Seismic Analysis of Reinforced–Earth Wall on Precarious Soil Improved with Stone Columns", *Proceedings of the 4th Japan – Greece Workshop, Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage,* 6-7 October, Kobe, Japan, 2011.

287. Tasiopoulou P., Smyrou E., Bal I.E., **Gazetas G.,** "Correlation of Ground Motion Characteristics with Liquefaction: Christchurch 2011 Earthquake", *Proceedings of the 4th Japan – Greece Workshop, Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage,* 6-7 October, Kobe, Japan, 2011.

288. Anastasopoulos I., Loli M., Drosos V., **Gazetas G.,** "Cyclic Push-Over and Shake Table

Testing of Bridge Pier with Foundation Uplifting and Soil Yielding", *Proceedings of the 4th Japan – Greece Workshop, Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage,* 6-7 October, Kobe, Japan, 2011.

289. Garini E., **Gazetas G.,** "The Christchurch 2011 Earthquake: Elastic and Perfectly-Plastic Response Potential of Selected Ground Motions", *Proceedings of the 4th Japan – Greece Workshop, Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage,* 6-7 October, Kobe, Japan, 2011.

290. Garini E., **Gazetas G.,** "Destructiveness of Earthquake Ground Motions: "Intensity Measures" versus Sliding Displacement" *Proceedings of the 4th Japan – Greece Workshop, Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage,* 6-7 October, Kobe, Japan, 2011.

291. Anastasopoulos I., Loli M., Bransby F., **Gazetas G.,** "Caisson Foundation Subjected to Normal Faulting : Experiment vs. analysis", *Proceedings of the XV European Conference on Soil Mechanics & Geotechnical Engineering,* 12-15 September, Athens, 2011

292. Kouroussis G., **Gazetas G.,** Verlinden O., " Tridimensional Finite Element of Dynamic Pile–Soil–Pile Interaction", *Proceedings of the Thirteenth International Conference on Civil, Structural and Environmental Engineering Computing*, 6-9 September, Chania, Crete, 2011

293. Kouroussis G., **Gazetas G.,** Anastasopoulos I., Conti C., Verlinden, "Lumped Mass Model of Vertical Dynamic Coupling of a Railway Track on Elastic Homogeneous or Layered Halfspace", *Proceedings of EURODYN 2011–8th International Conference on Structural Dynamics,* Leuven (Belgium), July 4-6, 2011

294. Smyrou E., Tasiopoulou P., Bal I.E., **Gazetas G.,** and Vintzileou E., "Structural and Geotechnical Aspects of the Christchurch (2011) and Darfield (2010) Earthquakes in N. Zealand", *Proceedings of the Seventh National Conference on Earthquake Engineering,* 30 May-3 June 2011, Istanbul, Turkey, 2011.

295. Kourkoulis R., Gelagoti F., Anastasopoulos I., **Gazetas G.,** "Stabilization of Seismically Unstable Slopes Using Piles: Parametric Analysis", *Proceedings of the 5th International Conference on Earthquake Geotechnical Engineering*, Santiago , Chile, 10-13 January 2011

296. Giannakos S., Gerolymos N., **Gazetas G.,** "On the Lateral Response of Piles : Numerical Analysis Against Centrifuge Experiments", *Proceedings of the 5th International Conference on Earthquake Geotechnical Engineering*, Santiago, Chile, 10-13 January 2011

297. Gelagoti F., Kourkoulis R., Anastasopoulos I., **Gazetas G.,** " Effect of Soil Non-Linearity on the Seismic Response of a Very Soft Alluvial Valley", *Proceedings of the 5th International Conference on Earthquake Geotechnical Engineering*, Santiago, Chile, 10-13 January 2011

298. Loli M., Anastasopoulos I., Bransby M., **Gazetas G.,** " Normal and Reverse Fault Rupture Interaction with Caisson Foundations : Centrifuge Modelling and Numerical Simulation", *Proceedings of the 5th International Conference on Earthquake Geotechnical Engineering*, Santiago, Chile, 10-13 January 2011

299. Tasiopoulou P., Gerolymos N., **Gazetas G.,** "Piles in Lateral Spreading : A Simple Method Versus Centrifuge Experiments", *Proceedings of the 5th International Conference on Earthquake Geotechnical Engineering*, Santiago, Chile, 10-13 January 2011

300. Drosos V., Gerolymos N., **Gazetas G.,** " Seismic Response of Bridge Pile-Columns", *Proceedings of the 5th International Conference on Earthquake Geotechnical Engineering*, Santiago, Chile, 10-13 January 2011

301. Zafeirakos A., Gerolymos N., **Gazetas G.,** "The Role of Soil and Interface Nonlinearities on the Seismic Response of Caisson supported Bridge Piers", *Proceedings of the 5th International*

Conference on Earthquake Geotechnical Engineering, Santiago, Chile, 10-13 January 2011

302. **Gazetas G.,** Ziotopoulou A. , "Bi-normalized Responses Spectrum for a Rational Soil Structure Interaction Analysis", *Workshop on Soil Structure Interaction (SSI) Knowledge and Effect on the Seismic Assessment of NPP Structures and Components*, Otawa, Canada, 6-8 October, 2010.

303. Gelagoti F., Kourkoulis R., Anastasopoulos I., & **Gazetas G.,** " Seismic Soil-Foundation-Frame Interaction under Valley-affected Ground Motion", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek).

304. Gelagoti F., Kourkoulis R., Anastasopoulos I., & **Gazetas G.,** " Non-Linear Inelastic Behavior of Foundations: Application on the Seismic Protection of Frame Structures", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek).

305. Kourkoulis R., Gelagoti F., Anastasopoulos I., **Gazetas G.**, "Piles Effectiveness for Slope Stabilization: 3D Numerical Investigation", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek).

306. Drosos B., Gelagoti F., Kourkoulis R., Anastasopoulos I., **Gazetas G.**, "New Thessaloniki Commercial Port: Non-linear seismic Analysis of the Quay Wall", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek).

307. Drosos B., Georgarakos T., Anastasopoulos I., **Gazetas G.,** ""Experimental Validation of Bridge Pier Seismic Design Employing Soil Ductility." *6th Greek Conference on Geotechnical and Environmental Engineering,* 29September - 1 October, 2010, Volos, Greece (in Greek).

308. **Gazetas G.,** Gerolymos N., "Kinematic Response of Piles: Analysis with Artificial Neural Network", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek)

309. Panagiotidou A., **Gazetas G.,** Gerolymos N., "Pushover and Inelastic-Seismic Response of Shallow Foundations Supporting a Slender Structure", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek).

310. Ziotopoulou A., **Gazetas G.,** Tazoh T., "Soil Amplification during the 2003 Tokachi–Oki Earthquake: Analysis of Surface and Bedrock Recordings", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek).

311. Garini E., **Gazetas G.,** Gerolymos N., " Effect of Pre-Yielding Elasticity on Sliding Triggered by "Near-Fault" Wavelets", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29September - 1 October, 2010, Volos, Greece (in Greek)

312. Garini E., Gerolymos N., Ziotopoulou K., **Gazetas G.,** "Seismic Response Analysis of Earthfill Dams Using Rigorous and Simplified Methods – The Case of Asterios Dam", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek).

313. Drosos V., Gerolymos N., **Gazetas G**. "Seismic Response of Pile-columns: Numerical Investigation." *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek).

314. Tasiopoulou P., Gerolymos N., **Gazetas G**., "Numerical Simulation of Pile Response due to Liquefaction based on Centrifuge Experiment", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek).

315. Tasiopoulou P., Ziotopoulou K., **Gazetas G.,** "Stavros Niarchos Cultural Center: Seismic Analysis of Tall Reinforced Earth Wall on Precarious Soil", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek)

316. Loli M., Anastasopoulos I., Bransby M.F., **Gazetas G.,** "Caisson foundation subjected to normal faulting: Experimental and analytical study" *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek)

317. Zarzouras O., Gerolymos N., **Gazetas G., "** Seismic response of caisson quay-wall in a liquefied environment: Analysis of a case history", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek).

318. Gerolymos N., Karakitsou M., **Gazetas G..,** " Reinforced Soil Retaining Walls: Numerical Analysis of a Centrifuge Test", *6th Greek Conference on Geotechnical and Environmental Engineering,* 29 September - 1 October, 2010, Volos, Greece (in Greek).

319. Gazetas G., Panagiotidou An., Gerolymos N. ,"Pushover and Inelastic–Seismic Response of Shallow Foundations Supporting a Slender Structure", *Proceedings of the Fifth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics* , May 24-29, San Diego 2010 (available in Cd rom).

320. Anastasopoulos I., Georgarakos T., Drosos V., **Gazetas G.,**. "Experimental Soil-Foundation-Bridge Pier Interaction : Towards a Reversal of Capadity Design", *Proceedings of the Fifth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics* , May 24-29, San Diego, 2010 (available in Cd rom).

321. Anastasopoulos I., Georgarakos T., Kourkoulis R., **Gazetas. G.**,"Design of Bridges Against Seismic Faulting : Methodology and Applications", *Proceedings of the Fifth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics* , May 24-29, San Diego,2010 (available in Cd rom).

322. Gerolymos N., Drosos V., **Gazetas. G.**, "Seismic Response of Inelastic Pile Foundations : A New Performance Based Design Philosophy", *Proceedings of the Fifth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics* , May 24-29, San Diego, 2010 (available in Cd rom).

323. Tazoh T., Sato M., Jang J. & Taji Y., **Gazetas. G.**, "Seismic Behavior of Batter Pile Foundation : Kinematic Response", *Proceedings of the Fifth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics* , May 24-29, San Diego, 2010 (available in Cd rom).

324. Anastasopoulos I., Antonakos A., **Gazetas G.** "Simplified Method for the Design of Raft Foundations against a Direct Hit by Thrust Faulting", *Proc. 3rd Greece–Japan Workshop, Seismic Design, Observation, Retrofit of Foundations*, 22–23 September, Santorini, Greece , pp.362-374, 2009.

325. Simpson B, Morrison P., Yasuda S., Townsend b., **Gazetas G.** "State of the art report: Analysis and design", *Proceedings 17th International Conference SMGE*, Alexandria, Vol. 4, pp. 2873-2929, 2009.

326. Anastasopoulos I., Kourkoulis R., Drosos V., Georgarakos T., **Gazetas G.**, "Methodology for Design Analysis of Bridges against an Emerging Fault Rupture", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 375-392., 2009

327. Stavropoulou E., Anastasopoulos I., **Gazetas G.**, "Preliminary SFSI Studies for the Messina Bridge Foundations", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 438-448, 2009.

328. Anastasopoulos I., Loli M., Gerolymos N., Apostolou M., **Gazetas G.**, "Towards a Reversal of Seismic Capacity Design. Part A : Analysis of Bridge Pier–Foundation System", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 393-406, 2009.

329. Anastasopoulos I., Georgarakos T., Drosos V., Giannakos S., **Gazetas G**., "Towards a Reversal of Seismic Capacity Design : Part B. Shaking-Table Testing of Bridge Pier–Foundation

System", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 407-418, 2009.

330. Kourkoulis R., Gelagoti F., Anastasopoulos I., **Gazetas G.**, "Piles for Stabilising Seismically Precarious Slopes. Part A : Development and Validation", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 506-519, 2009.

331. Kourkoulis R., Gelagoti F., Anastasopoulos I., **Gazetas G.** , "Piles for Stabilising Seismically Precarious Slopes. Part B : Parametric Analysis and Design Charts", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 520-533, 2009.

332. Giannakou A., Gerolymos N., **Gazetas G.**, "Kinematic and Inertial Behavior of Batter Piles", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp.36-50, 2009.

333. Drosos V.A., Gerolymos N., **Gazetas G.**, " Seismic Response of Bridge", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp.51-70, 2009.

334. Tasiopoulou P., Gerolymos N., Tazoh T., **Gazetas G.**, " Piles in Liquefaction- Induced Soil Flow behind Quay Wall : A Simple Physical Method Versus Centrifuge Experiments", *Proc. 3rd Greece–Japan Workshop, Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 114 -127, 2009.

335. Garini E., **Gazetas G.,** Gerolymos N. , "Effect of Pre-Yielding Elasticity on Sliding Triggered by Near-Fault Motions Modeled as idealized Wavelets", *Proc. 3rd Greece–Japan Workshop, Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 219-228, 2009.

336. Gerolymos N. **Gazetas G.**, "Pile Foundations in improved Soil for Highway Bridge facing Liquefaction-Induced Soil Flow ",*Proc. 3rd Greece–Japan Workshop, Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp.362-374, 2009.

337. **Gazetas G.,** Anastasopoulos I., Loli M., Gerolymos N., "Nonlinear Inelastic Seismic Response of Slender Bridge Pier on Surface Foundation", *Proc. 2nd International Conference on Computational Dynamics and Earthquake Engineering – COMPDYN-2009,* 22-24 June, Rhodes, Greece, 2009.

338. Δρόσος Β., Γερόλυμος Ν. , **Γκαζέτας Γ.**, "Ανελαστική Σεισμική Απόκριση Εδάφους:Επαλήθευση Νέου Καταστατικού Προσομοιώματος", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1849, 2009.

339. Ζιωτοπούλου Κ., **Γκαζέτας Γ.,** Γαρίνη Ευ., "Πρός Ένα Ενιαίο Δι-Κανονικοποιημένο Φάσμα Αποκρίσεως για Όλες τις Εδαφικές Κατηγορίες", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1857, 2008.

340. Γερόλυμος Ν. **Γκαζέτας Γ.**, "Σεισμικό Εναυσμα, Εξέλιξη, Απόθεση Βιαίων Κατολισθήσεων: Αριθμητική Ανάλυση Ιστορικών Περιστατικών", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1894, 2008.

341. Γελαγώτη Φ., Κουρκουλής Ρ., **Γκαζέτας Γ.**, "Φαινόμενα 2-Διάστατης Κυματικής Διάδοσης εντός εδαφικής Κοιλάδας", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1942, 2008

342. Γερόλυμος Ν., **Γκαζέτας Γ.**, "Γέφυρα Νέστου : Ανάλυση–Σχεδιασμός Θεμελιώσεως Έναντι Ρευστοποιήσεως" , *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1929, 2008

343. **Γκαζέτας Γ.,** Γερόλυμος Ν. , Γαρίνη Ευ, Γελαγώτη Φ., Ζιωτοπούλου Κ., "Χωμάτινο Φράγμα Αστερίου : Σεισμική Ανάλυση με "Ακριβείς" καί Απλοποιημένες Μεθόδους", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 2043, 2008

344. Δρόσος Β., Γερόλυμος Ν., **Γκαζέτας Γ.**, "Δυναμική Εγκαρσίως Φορτιζομένου Πασσάλου: Επαλήθευση Νέας Μεθόδου", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1947, 2008

345. Γερόλυμος Ν. Δρόσος Β., **Γκαζέτας Γ.** , "Σεισμική Απόκριση Κολωνο–Πασσάλων: Μή–Γραμμική Συμπεριφορά Εδάφους και Πασσάλου", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1983, 2008

346. Γερόλυμος Ν., **Γκαζέτας Γ.**, "Κινηματική Επιπόνηση Πασσάλου: Εφαρμογή της Μεθόδου των Τεχνητών Νευρωνικών Δικτύων" *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 2020, 2008

347. Γερόλυμος Ν. **Γκαζέτας Γ.** (2008), "Εγκάρσια Απόκριση Πασσάλου με Μή-Γραμμική Συμπεριφορά Υλικών και Διεπιφάνειας. Μέρος Α: Ανάλυση", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 2052, 2008

348. Γερόλυμος Ν., **Γκαζέτας Γ.,** "Εγκάρσια Απόκριση Πασσάλου με Μή-Γραμμική Συμπεριφορά Υλικών και Διεπιφάνειας. Μέρος Β: Εφαρμογές και **Συγκρίσεις",** Ανάλυση", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 2053, 2008

349. Γερόλυμος Ν., Καρακίτσου Μ., **Γκαζέτας Γ.,** "Σεισμική Συμπεριφορά Τοίχων Ωπλισμένης Γής: Αριθμητική Ανάλυση Πειράματος Φυγοκέντρισης", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 2095, 2008

350. Ζαρζούρας Ο., ΓερόλυμοςΝ., **Γκαζέτας Γ**., "Σεισμική Απόκριση Κιβωτιοειδούς Κρηπιδοτοίχου υπό Συνθήκες Μεγάλων Παραμορφώσεων και Ρευστοποιήσεως", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 2114, 2008.

351. Γερόλυμος Ν., Αποστόλου Μ., **Γκαζέτας Γ.**, "Λικνισμός και Ανατροπή Στερεού Σώματος υπό Σεισμική Διέγερση: Ιστορικά Περιστατικά", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1777, 2008.

352. Γερόλυμος Ν., **Γκαζέτας Γ.** , "Μή-Γραμμική Εγκάρσια Απόκριση Φρέατος Θεμελιώσεως", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1807, 2008.

353. Κουρκουλής Ρ., **Γκαζέτας Γ.**, "Αλληλεπίδραση Εδάφους Κατασκευής Σε Σεισμικές Κατολισθήσεις", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1912, 2008.

354. Τασιοπούλου Π., Γερόλυμος Ν., **Γκαζετας Γ.**, **"**Αλληλεπίδραση Πασσάλου–Εδάφους υπο Συνθήκες Εδαφικής Ροής λόγω Ρευστοποιήσεως μετά από Αστοχία Κρηπιδοτοίχου", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1912, 2008.

355. Αναστασόπουλος Ι., Λώλη Μ., Γερόλυμος Ν., Αποστόλου Μ., **Γκαζέτας Γ.**, "Βάθρο–Θεμελίωση Γέφυρας: Πρόταση Πιθανής Υπέρβασης του Αντισεισμικού Ικανοτικού Σχεδιασμού", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1866, 2008

356. Αναστασόπουλος Ι., Γεωργαράκος Τ., Δρόσος Β., **Γκαζέτας Γ.**, "Αλληλεπίδραση Ρήγματος–Επιφανειακής Θεμελίωσης : Προσομοίωση στην Νέα Εργαστηριακή Εγκατάσταση του ΕΜΠ", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1847, 2008

357. Γεωργαράκος Τ., Δρόσος Β., Αναστασόπουλος Ι., **Γκαζέτας Γ.**, "Πειραματικός Έλεγχος Σεισμικής Συμπεριφοράς Τοίχων Ωπλισμένης Γης στην Νέα Δονητική Τράπεζα του Εργαστηρίου Εδαφομηχανικής ΕΜΠ", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1996, 2008

358. Αναστασόπουλος Ι., **Γκαζέτας Γ.**, "Αντισεισμικός Σχεδιασμός Κτιριακών Έργων έναντι Τεκτονικής Διαρρήξεως", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1842, 2008

359. Γκαζέτας Γ., Αναστασόπουλος Ι., Γεωργαράκος Τ., Δρόσος Β., "Εργαστήριο Εδαφομηχανικής ΕΜΠ : Νέο Τμήμα Προσομοίωσης της Σεισμικής Συμπεριφοράς Συστημάτων Εδάφους Κατασκευής", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 2023, 2008

360. Αναστασόπουλος Ι., Πρασσά Χ., Γιαννακός Σπ., **Γκαζέτας Γ.**, "Σεισμική Συμπεριφορά Αντιστηρίξεων Μονωμένων με Γεωαφρό", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 2063, 2008

361. Αναστασόπουλος Ι., Αντωνάκος Γ., Γιαννακός Σπ., **Γκαζέτας Γ.**, "Αλληλεπίδραση Ανάστροφης Διάρρηξης με Θεμελιοδοκό", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 2097, 2008

362. Πλέλλη-Τσαλτάκη Α., Αναστασόπουλος Ι., **Γκαζέτας Γ.** , "Ανάλυση της Αστοχίας των Εφεδράνων της Κοιλαδογέφυρας Düzce–Bolu στον Σεισμό της Τουρκίας (12-11-1999)", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 2088, 2008

363. Αναστασόπουλος Ι., Δρόσος Β., Γεωργαράκος Τ., Κουρκουλής Ρ., **Γκαζέτας Γ.**, "Σχεδιασμός Σιδηροδρομικών και Οδικών Γεφυρών έναντι Σεισμικής Διάρρηξης. Μέρος 1 : Θεμελίωση", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1954, 2008

364. Αναστασόπουλος Ι., Δρόσος Β., Γεωργαράκος Τ., Κουρκουλής Ρ., **Γκαζέτας Γ.**, "Σχεδιασμός Σιδηροδρομικών και Οδικών Γεφυρών έναντι Σεισμικής Διάρρηξης. Μέρος 2 : Ανωδομή", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1955, 2008

365. Αναστασόπουλος Ι., **Γκαζέτας Γ.,** Μάλιος Ι., "Μεγάλη Σιδηροδρομική Γέφυρα Δομοκού (ΣΓ26): Σχεδιασμός έναντι Σεισμικής Διάρρηξης", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1956, 2008.

366. Αναστασόπουλος Ι., **Γκαζέτας Γ.,** "Αντισεισμικός Σχεδιασμός των Σηράγγων Παράκαμψης Καμένων Βούρλων έναντι Τεκτονικής Διάρρηξης", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1887, 2008

367. Αναστασόπουλος Ι., Γερόλυμος Ν., Δρόσος Β., Κουρκουλής Ρ., Γεωργαράκος Τ., **Γκαζέτας Γ**, "Υποθαλάσσια Σήραγγα Ρίου–Αντιρρίου : Σχεδιασμός έναντι Διάρρηξης Ρήγματος και Μεταγενέστερης Σεισμικής Δόνησης", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1976, 2008.

368. Γιαννακού Α., Γερόλυμος Ν., Αναστασόπουλος Ι., **Γκαζέτας Γ.** , "Κεκλιμένοι Πάσσαλοι : Επιζήμιοι ή επωφελείς στον σεισμό ; ", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 1856, 2008.

369. Γαρίνη Ε., Αναστασόπουλος Ι., **Γκαζέτας Γ.**, "Πρακτικού Ενδιαφέροντος Παράδοξα στην Δυναμική Ολίσθηση Σώματος Υποβαλλομένου σε Εγγύς–του–Ρήγματος Κραδασμούς", *Πρακτικά 3ου Πανελληνίου Αντισεισμικής Μηχανικής & Τεχνικής Σεισμολογίας*, Αθήνα, 5–7 Νοεμβρίου, Άρθρο 2035, 2008.

370. Anastasopoulos I., Kourkoulis R., **Gazetas G.** Halkias B., Papadimitriou F.," Development of Earthquake Crisis Management Strategic Plan for Metropolitan Highway Systems", *17th Congress of International Association for Bridge and Structural Engineering(IABSE)*, Chicago, 17-19 September 2008.

371. Gazetas G., Garini Eu., and Georgarakos T., "Effects of Near-Fault Ground Shaking on Soils Response Spectra, and Geotechnical Structures", *Geotechnical Earthquake Engineering and Soil Dynamics IV,* Sacramento, CA 18-22 May 2008.

372. Tazoh T. Jang J., Sato M., **Gazetas G.** "Pile Foundation-structure Systems Affected by Liquefaction-induced Soil Flow after Quay Wall Failure", Proceedings of the 12th International Conference of International Association for Computer Methods and Advances in Geomechanics (IACMAG), India, 2008.

373. Varun SM., Assimaki D, **Gazetas G**. "A Simplified Model for the Linear Elastic Analysis of Laterally Loaded Caissons" GeoCongress 2008: Geo-sustainability and Geohazard Mitigation,ASCE, Vol. 178, pp. 17, 2008.

374. Gazetas G. and Anastasopoulos I.,"Interaction of Foundations with a Rupturing Fault : Case Histories from Gölcük 1999", *1st National Turkish Specialty Symposium on Soil-Structure Interaction, Turkish Society for Soil Mechanics and Foundation Engineering,* Istanbul 8-9 November 2007.

375. Gazetas G. and Anastasopoulos I. , "Overturning of Buildings in Adapazari During the 1999 Kocaeli Earthquake", *Proceedings of the Sixth Turkish National Conference on Earthquake Engineering,* Turkish Association for Earthquake Engineering, Istanbul, 16-20, October 2007

376. Anastasopoulos I., **Gazetas G.,** Bransby M.F., Davies M.C.R., and El Nahas A., " Shallow Foundations over Rupturing Normal Faults **:** Analysis and Experiments", *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering ,* Thessaloniki, June 2007.

377. Giannakou A., Gerolymos N. and **Gazetas G.,** "Kinematic Response of Groups with Inclined Piles", *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering ,* Thessaloniki, June 2007.

378. Apostolou M, Thorel L., **Gazetas G.**, Garnier J., and Rault G., "Physical and Numerical Modelling of Soil-Footing Structure Under Lateral Cyclic Loading", *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering ,* Thessaloniki , June 2007.

379. Kourkoulis R. and **Gazetas G.,** "Soil-Structure Interaction Effects During Landslides in Strain Softening Soil", *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering ,* Thessaloniki, June 2007.

380. Garini Ev., **Gazetas G.,** and Anastasopoulos I., "Rupture-Directivity and Fling-Step Effects on Newmark Block Sliding", *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering ,* Thessaloniki, June 2007.

381. Gerolymos N., and **Gazetas G.,** "Seismic Triggering, Evolution and Deposition of Massive Landslides. The Case of Higashi-Takezawa (2004)", *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering ,* Thessaloniki, June 2007.

382. Anastasopoulos I., Gerolymos N., Drosos V., Kourkoulis R., Georgarakos T. and **Gazetas G.,** "Deep Immersed Tunnel Subjected to Major Fault Rupture Deforamtion", *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering ,* Thessaloniki, June 2007.

383. Drosos V., Gerolymos N., and **Gazetas G,** "Calibration and Verification of Nonlinear Wave Propagation Method", *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering ,* Thessaloniki, June 2007.

384. Gelagoti F., **Gazetas G.,** Kourkoulis R.," 2-D Wave Effects in Alluvial Valleys : How Important and Predictable are they ?" *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering ,* Thessaloniki, June 2007.

385. Psarropoulos Pr. and **Gazetas G.**, "Effects of Soil Nonlinearity on the Geomorphic Aggravation of Groun d Motion in Alluvial Valleys", *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering ,* Thessaloniki, June 2007/

386.Gazetas G., and Gerolymos N., "Inelastic Lateral Response of Rigid Caisson Foundations", *Proceedings of the 4th U.S.-Japan Workshop on Soil-Structure-Interaction,* Tsukuba, Japan, paperF3, pp.310-339, 2007.

387. Gazetas G., Anastastopoulos I., Gerolymos N., Drosos V., Kourkoulis R., and Georgarakos T., "Deep Immersed Tunnel under Combined Major Fault Rupture Deformation and Subsequent

Strong Seismic Shaking", *Proceedings of the 2nd Japan–Greece Workshop on Seismic Design, Observation, Retrofit of Foundations,* Tokyo, Japan, pp. 1-26, 2007.

388. Gerolymos N., **Gazetas G**. and Vardoulakis I., "Seismic Triggering, Evolution, Deposition and Retaining of Rapid Landslides", *Proceedings of the 2nd Japan–Greece Workshop on Seismic Design, Observation, Retrofit of Foundations,* Tokyo, Japan, pp. 27-50, 2007.

389. Kourkoulis R., Gelagoti F., Anastasopoulos I. and **Gazetas G.,** "Interaction of Earthquake-Triggered Landslide with Foundation-Structure Systems", *Proceedings of the 2nd Japan–Greece Workshop on Seismic Design, Observation, Retrofit of Foundations,* Tokyo, Japan, pp. 51-63, 2007.

390. Garini E., and ***Gazetas G.,*** "Sliding of Rigid Block on Sloping Plane : the Surprising Role of the Sequence of Long-Duration Pulses", *Proceedings of the 2nd Japan–Greece Workshop on Seismic Design, Observation, Retrofit of Foundations,* Tokyo, Japan, pp. 79-104, 2007.

391. Apostolou M. and **Gazetas G.,** "Analytical Modelling of Footings under Large Overturning Moment", *Proceedings of the 2nd Japan–Greece Workshop on Seismic Design, Observation, Retrofit of Foundations,* Tokyo, Japan, pp. 165-184, 2007.

392. Anastasopoulos I., **Gazetas G.,** "Interaction of Shallow and Deep Foundations with a Rupturing Normal Fault", *Proceedings of the 2nd Japan–Greece Workshop on Seismic Design, Observation, Retrofit of Foundations,* Tokyo, Japan, pp. 197-211, 2007.

393. Gerolymos N., Drosos V., Escoffier S., **Gazetas G.** and Garnier J., "Interaction of Shallow and Deep Foundations with a Rupturing Normal Fault", *Proceedings of the 2nd Japan–Greece Workshop on Seismic Design, Observation, Retrofit of Foundations,* Tokyo, Japan, *pp. 299-319, 2007.*

394. Giannakou A., Gerolymos N, and **Gazetas G.**, "Influence of Batter Piles on the Seismic Response of Pile Groups", *Proceedings of the 2nd Japan–Greece Workshop on Seismic Design, Observation, Retrofit of Foundations,* Tokyo, Japan, pp. 335-343, 2007.

395. Varun, Assimmaki D., and **Gazetas G.,** "Linear Elastic Transient Response of Deep Rigid Foundations : From 3D Finite Element simulations to Design", *Proceedings of the 2nd Japan–Greece Workshop on Seismic Design, Observation, Retrofit of Foundations,* Tokyo, Japan, *pp. 369-385, 2007.*

396. Tazoh T., Sato M., Jang J., and **Gazetas G.,** "Centrifuge Tests on Remedial Measure using Batter Piles Against Liquefaction-Induced Soil Flow afte Quay Wall Failure", *Proceedings of the 2nd Japan–Greece Workshop on Seismic Design, Observation, Retrofit of Foundations,* Tokyo, Japan, pp. 431-439, 2007.

397. Vardoulakis I., **Gazetas G.,** Gerolymos N. "Mathematical and Experimental Simulation of Seismic Triggering, Evolution, and Deposition of Violent Landslides", *Proceedings of the Conference on the Scientific Research in N.T.U.A.*, Plomari Lesvou, Greece, July 5–8, 2007.

398. Gazetas G., «Seismic Design of Foundations and Soil–Structure Interaction", *First European Conference on Earthquake Engineering and Seismology (a joint event of the 13th ECEE & 30th General Assembly of the ESC),* Geneva, Switzerland, , Paper Number: 999, 2006.

399. Kourkoulis R., Anastasopoulos I., **Gazetas G.,** "Analysis Of Soil–Structure Interaction During Earthquake–Induced Landslides on Strain–Softening Soil", *First European Conference on Earthquake Engineering and Seismology (a joint event of the 13th ECEE & 30th General Assembly of the ESC),* Geneva, Switzerland, Paper Number: 999, 2006.

400. Drosos V., Gerolymos N., **Gazetas G**., "Non-linear Analysis of Laterally Loaded Piles : Calibration of a New Method ", *Proceedings of the 10th International Conference on Piling and Deep Foundations,* DFI/EFFC, Amsterdam, pp. 260-268, 2006.

401. Giannakou A., Gerolymos N., **Gazetas G**., "Lateral Dynamic Response of Single Inclined Piles", *Proceedings of the 10th International Conference on Piling and Deep Foundations,* DFI/EFFC, Amsterdam, pp. 286-295, 2006.

402. Anastasopoulos I., **Gazetas G.,** "Design of Rodinion Bridge Against Possible Tectonic Dislocation", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 51-56 , 2006.

403. Anastasopoulos I., **Gazetas G.,** Sigalas I., "Design of OEK's Housing Complex Against Displacement of the Atalanti Fault : Soil-Foundation-Structure Interaction", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 57-64 , 2006.

404. Anastasopoulos I., **Gazetas G.,** Sigalas I., Pavlidis S., " Failures and Successful Performance of Buildings Subjected to Fault Induced Displacement : Case Histories from the Kocaeli 1999 Earthquake", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 65-72 , 2006.

405. Garini E., Gerolymos N., **Gazetas G.,** "Asymetric Block Sliding from Idealized Pulse Wavelets and Near-Fault Ground Motions", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 121-126, 2006.

406. Garini E., Gerolymos N., Anastasopoulos I., **Gazetas G.,** "Analysis of Pile Against Large Displacements in Liquefiable Soil", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 127-134 , 2006.

407. Gerolymos N., Drosos V., **Gazetas G.**, " The Effect of Inclined Piles on the Seismic Response of Structures : Case Histories and Numerical Analyses", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 135-142, 2006.

408. Gerolymos N., Kourkoulis R., **Gazetas G.,** "Analysis of Catastrophic Landslides Triggered by the 2004 Mid-Niigata Earthquake : The Case of Higashi Takezawa Slope", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 143 -150, 2006.

409. Georgarakos P., **Gazetas G.,** " In-Ground Seismic Isolation with Geosynthetic Liners", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 151-158, 2006.

410. **Gazetas G.,** Dakoulas P., Anastasopoulos I., "Failure of Harbor Quaywalls in the Lefkada 14-8-2003 Earthquake", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 159-166 , 2006.

411. Drosos V., Gerolymos N., **Gazetas G.,** " Laterally Loaded Pile in Soft Organic Soil : Analysis of Full-Scale Experiments", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 167-174 , 2006.

412. Kourkoulis R., Drosos V., **Gazetas G.,** "Mid-Niigata 2004. Evaluation of Landslides and Shaking Destructiveness of the M 6.8 Mid-Niigata 2004 Earthquake", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 263-270 , 2006.

413. Papaioannou Ch., Karakaissis G., Latoussakis I., Makropoulos K., Stavrakakis G., Tselentis G., **Gazetas G.,** Fardis M., Mountrakis D., Kostikas Ch., "Introduction on the Seismological Data and their Elaboration for the Compilation on the New Seismic Hazard Zoning Map of Greece", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 409-416, 2006.

414. Psarropoulos P., Panagiotou M., Gantes Ch., **Gazetas G.,** " Dynamic Interaction Between Soil and Wind Turbine Towers", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 481-487 , 2006.

415. Gerolymos N., Anastasopoulos I., **Gazetas G.**, Tsimonos Th., " OAKA : Retaining Structure Design of the Opening Ceremony Shaft", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 2, pp. 517-524 , 2006.

416. Apostolou M., Gerolymos N., Rizos D., **Gazetas G.,** " Bearing Capacity of Rectangular Foundation under Inclined Eccentric Loading", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 3, pp. 151-158 , 2006.

417. Giannakou A., Gerolymos N., **Gazetas G.,** "Stiffness of Inclined Pile in Homogeneous and Non-Homogeneous Soil", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 3, pp.159-166 , 2006.

418. Klimis N., Apostolou M., Anastasiadis A., Anastasopoulos I., **Gazetas G.,** "Nestos Bridge : Risk of Extended Liquefaction, Counter-Measures with Piles and Soil Improvement", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 3, pp. 207-214 , 2006.

419. Kourkoulis R., Anastasopoulos I., **Gazetas G.,** "Rion-Antirrion Bridge : Geotechnical Static and Dynamic Analysis of Pier M3", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 3, pp. 215-222 , 2006.

420. Anastasopoulos I., **Gazetas G.,** Pavlidis S., " Stratoni Tailings Dams : Analysis of Fault Rupture Propagation", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 3, pp. 319-326 , 2006.

421. Anastasopoulos I., Gerolymos N., **Gazetas G.,** Drosos V., Georgarakos P., Kourkoulis R., " Dynamic Analysis and Seismic Design of Immersed Tunnel : A Parametric Study", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 3, pp. 415-422 , 2006.

422. Anastasopoulos I., Apostolou M., **Gazetas G.,** Tsimonos Th., "Kamena Vourla Cut & Cover Tunnels : Analysis of the Consenquences of a Possible Fault Rupture", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 3, pp. 423-428 , 2006.

423. Giannakou A., Nomikos P., Anastasopoulos I., Giouta-Mitra P., Sofianos A., **Gazetas G.,** "Dynamic Response of Tunnels-Analysis of Seismic Failure Case History", *Proceedings of the 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Xanthi, Greece, Vol. 3, pp. 445-452, 2006.

424. Gazetas G., "Seismic Analysis Of Shallow Foundations : Beyond Ec8**",** *XX National Italian Geotechnical Conference : "La Progettazione Geotechnica con gli Eurocodici"* (Geotechnical Design with Eurocodes), Torino, Italy, 22-23 November 2005.

425. Gerolymos N., **Gazetas G.,** " Non–linear Lateral Response of Caisson Foundations", *Proceedings of the 1st Greece–Japan Workshop on Seismic Design, Observation, Retrofit of Foundations,* Athens, Greece, p.p. 1–25, 2005.

426. Gerolymos N., **Gazetas G.,** Tazoh T., "Seismic Response of Yielding Pile in Non–Linear Soil", *Proceedings of the 1st Greece–Japan Workshop on Seismic Design, Observation, Retrofit of Foundations,* Athens, Greece, p.p. 25–37, 2005.

427. Tazoh T., Sato M., **Gazetas G.,** "Centrifuge Tests on Pile–Foundation–Structure Systems affected by Liquefaction–induced Flow due to Quay–Wall Collapse", *Proceedings of the 1st Greece–Japan Workshop on Seismic Design, Observation, Retrofit of Foundations,* Athens, Greece, p.p. 79–107, 2005.

428. Apostolou M., **Gazetas G.,** "Rocking of Foundations under Strong Shaking : Mobilisation of Bearing Capacity and Displacement Demands", *Proceedings of the 1st Greece–Japan Workshop on Seismic Design, Observation, Retrofit of Foundations,* Athens, Greece, p.p. 131–140, 2005.

429. Dakoulas P., **Gazetas G.,** " Dynamic Earth and Water Pressures in the foundation and the Backfill of Caisson Quaywalls", *Proceedings of the 1st Greece–Japan Workshop on Seismic Design, Observation, Retrofit of Foundations,* Athens, Greece, p.p. 165–185, 2005.

430. Anastasopoulos I., **Gazetas G.,** "Design against Fault Rupture : Methodology and Applications in Greece", *Proceedings of the 1st Greece–Japan Workshop on Seismic Design, Observation, Retrofit of Foundations,* Athens, Greece, p.p. 345−367, 2005.

431. Georgarakos P., Yegian M., **Gazetas G.,** " In−Ground Isolation using Geosynthetic Liners", *Proceedings of the 1st Greece–Japan Workshop on Seismic Design, Observation, Retrofit of Foundations,* Athens, Greece, p.p. 432−441, 2005. (Also presented in the *9th World Seminar on Seismic Isolation Energy Dissipation and active Vibration Control of Structures,* June 13-16, Kobe Japan 2005.)

432. Gazetas, G., Anastasopoulos I., & Gerolymos, N., "Overturning of Buildings in Adapazari, during the 1999 Kocaeli earthquake", *Proceedings of the 2nd International Conference on Urban Earthquake Engineering,* Tokyo Institute of Technology, pp. 193−198. Tokyo, Japan, 2005

433. Gazetas G., Anastasopoulos I., and Dakoulas P. (2005), Failure of Harbor Quaywalls in the Lefkada 2003 earthquake, *Proceedings of Geotechnical Earthquake Engineering Satellite Conference - Performance Based Design in Earthquake Geotechnical Engineering : Concepts and Research*, Osaka, Japan, pp. 62-69.

434. Giannakou A., Nomikos P., Anastasopoulos I., Sofianos A., **Gazetas G.** & P. Yiouta-Mitra, "Seismic Behaviour of Tunnels in Soft Soil: Parametric Numerical Study and Investigation on the Causes of Failure of the Bolu Tunnel (Düzce, Turkey, 1999)", *Proceedings of the ITA-AITES 2005 ITA-AITES 2005 World Tunnel Congress*, Istanbul- Turkey, 2005.

435. Gazetas G., Apostolou M. [2004]. "Nonlinear soil-structure interaction : foundation uplifting and soil yielding." *Proceedings of 3rd US–Japan Workshop on Soil-Structure Interaction,Published by USJS, M.Celebi, M.I. Todorovska, I. Okawa and M. Iiba, editors,* Menlo Park, California.

436. Gazetas G., Apostolou M., Anastasopoulos J., "Seismic Bearing Capacity and Uplifting of Foundations **:** Adapazari 1999", *Proceedings of Fifth International Conference on Case Histories in Geotechnical Engineering*, New York, April 13−17, 2004 (in cd-rom)

437. Gazetas G., "Geotechnical Aspects of the Ms 6.4 Lefkada Island, Greece, 2003 Earthquake : Preliminary Assessment", *Proceedings of Fifth International Conference on Case Histories in Geotechnical Engineering*, New York, April 13−17, 2004 (in cd-rom)

438. Gazetas G., N. Gerolymos N. & Anastasopoulos J., "The Behavior of Three Athens Metro Underground Structures in the Parnitha (Athens) Earthquake", *Proceedings of the joint 11th International Conference on Soil Dynamics & Earthquake Engineering (11th ICSD) and the 3rd International Conference on Earthquake Geotechnical Engineering, (3rd ICEGE),* Vol. 1, pp. 390-397, Berkeley 7–9 January 2004.

439. Gerolymos N. & **Gazetas G.,** "Phenomenological Model Applied to Inelastic Response of Soil–Pile Interaction Systems", *Proceedings of the joint 11th International Conference on Soil Dynamics & Earthquake Engineering (11th ICSD) and the 3rd International Conference on Earthquake Geotechnical Engineering, (3rd ICEGE),* Vol. 1, pp. 552-557, Berkeley, 7–9 January 2004.

440. Gerolymos N. & **Gazetas G.,** "One–Dimensional Constitutive Model for Monotonic and Cyclic Soil Response Applied to Seismic Analysis of Multi–Layered Deposit", Proceedings of the joint *11th International Conference on Soil Dynamics & Earthquake Engineering (11th ICSD) and the 3rd International Conference on Earthquake Geotechnical Engineering, (3rd ICEGE),* Vol. 1, pp. 800-804, Berkeley 7–9 January 2004.

441. Dakoulas P. & **Gazetas G.,** "Effective–Stress Analysis of Gravity Quay Walls", Proceedings of the joint *11th International Conference on Soil Dynamics & Earthquake Engineering (11th ICSD) and the 3rd International Conference on Earthquake Geotechnical Engineering, (3rd ICEGE*Vol. 1, pp. 326-333, *),* Berkeley, 7–9 January 2004.

442. Assimaki D., Kausel E., & **Gazetas G.,** "Topography Effects in the 1999 Athens Earthquake : Engineering Issues in Seismology", Proceedings of the joint *11th International Conference on Soil Dynamics & Earthquake Engineering (11th ICSD) and the 3rd International Conference on Earthquake Geotechnical Engineering, (3rd ICEGE),* Vol. 2, p.p. 31-38, Berkeley, 7–9 January 2004.

443. Apostolou M. & **Gazetas G.,** "Seismic Response of Simple Structures with Foundation Uplift", *Proceedings of the joint 11th International Conference on Soil Dynamics & Earthquake Engineering (11th ICSD) and the 3rd International Conference on Earthquake Geotechnical Engineering, (3rd ICEGE),* Vol. 1, p.p. 182-189, Berkeley, 7–9 January 2004.

444. **Gazetas G.** and Gerolymos N. , "Analysis of the foundations of the "Calatrava" arches for the Olympic Games of 2004", *Conference Proceedings*, *NTUA edition «The Athens 2004 Olympic games and the NTUA»*, 131-134, 2004.

445. **Gazetas G.,** Gerolymos N., Anastasopoulos I., "Analysis, design and construction of the retaining system of the Opening Ceremony shaft for the Athens 2004 Olympic Games", *Conference Proceedings*, *NTUA edition «The Athens 2004 Olympic games and the NTUA»*, 141-144, 2004.

446. **Gazetas G.** and Gerolymos N., "Seismic microzonation study of the Olympic village", *Conference Proceedings*, *NTUA edition «The Athens 2004 Olympic games and the NTUA»*, 137-140, 2004.

447. **Gazetas G.,** Anastasopoulos J., Garini E., "The Lefkada 2003 Earthquake : Damage to Harbors", *Proceedings 3rd National Greek Conference on Ports/Harbors,* pp. 83-110, 2003.

448. Gerolymos N. & **Gazetas G.,** "Model Applied to Inelastic Response of Soil–Pile Interaction Systems", *International Workshop on Prediction and Simulation Methods in Geomechanics* , F. Oka, I. Vardoulakis, A. Murakami, & T. Kodaka, editors,Athens, pp.29-32, 14–15 October 2003.

449. Gerolymos N. & **Gazetas G.,** "One–Dimensional Constitutive Model for Monotonic and Cyclic Soil Response Applied to Seismic Analysis of Multi–Layered Deposit", *International Workshop on Prediction and Simulation Methods in Geomechanics* , F. Oka, I. Vardoulakis, A. Murakami, & T. Kodaka, editors,Athens, pp.25-29, 14–15 October 2003.

450. Psarropoulos P., **Gazetas G.,** Tazoh T., & Apostolou, "Seismic Linear and Non–Linear Valley Effects on Bridge Foundation Response", *International Workshop on Prediction and Simulation Methods in Geomechanics* , F. Oka, I. Vardoulakis, A. Murakami, & T. Kodaka, editors,Athens, pp.193-196, 14–15 October 2003.

451. **Gazetas G.,** Apostolou M. and Anastasopoulos J., "Seismic Uplifting of Foundations on Soft Soil, with Examples from Adapazari (Izmit 1999, Earthquake), *BGA International Conference on Foundations – Innovations, Observations, Design & Practice*, University of Dundee, Scotland, pp. 37–50, September 2–5, 2003.

452. **Gazetas G. ,** Gerolymos N., Anastasopoulos I., Novack M., Benissi M., "The Behaviour of Three Athens Metro Underground Structures in the Parnitha (Athens) Earthquake". *Proceedings of Fib International Symposium on Concrete Structures in Seismic Regions*, Athens, summary in pp. 528-529, paper in CD-ROM, May 2003

453. Anastasopoulos I., **Gazetas G.,** Psarropoulos Pr., , " Flexible Retaining Walls : Why They do not often Fail in Strong Seismic Shaking". *Proceedings of Fib International Symposium on Concrete Structures in Seismic Regions*, Athens, summary in pp. 146-147, paper in CD-ROM, May 2003

454. Syngros C., Anastasopoulos I., Mylonakis G., **Gazetas G.,** "The Collapse of Fukae (Hanshin Expressway) Bridge, Kobe 1995 : Contribution of Soil–Structure Interaction, Reconstruction and Isolation". *Proceedings of Fib International Symposium on Concrete Structures in Seismic Regions*, Athens, summary in pp.142-143, paper in CD-ROM, May 2003

455. Apostolou M., **Gazetas G.,** Makris N., Anastasopoulos J., "Rocking Of Foundations under Strong Seismic Excitation". *Proceedings of Fib International Symposium on Concrete Structures in Seismic Regions*, Athens, summary in pp. 144-145, paper in CD-ROM, May 2003

456. Fardis N., Georgarakos P., **Gazetas G.,** Anastasopoulos I., "Sliding Isolation of Structures : Effect of Horizontal and Vertical Acceleration" *Proceedings of Fib International Symposium on Concrete Structures in Seismic Regions*, Athens, summary in pp.474-475, paper in CD-ROM, May 2003

457. Gazetas G., "Soil Foundation Issues in Seismic Codes", *Proceedings of International Conference on Earthquake Risk Minimization*, Nicosia, Cyprus, pp. 196-220 March, 2002

458. Gazetas G. & Makris N., "Uplifting and Overturning of Simple Structures in Light of the Athens, Kocaeli, and Duzce Earthquakes of 1999", *Proceedings of the Fourth Forum on Implications of Recent Earthquakes on Seismic Risk*, Tokyo Institute of Technology, pp. 277-291, Tokyo, May 2002

459. Apostolou M., Anastasopoulos I., **Gazetas G.,** "Analysis of Sliding and Overturning of Monuments in the Parnitha Earthquake for Estimating the Ground Acceleration", *Proceedings of the Second Hellenic Conference on Earthquake Engineering and Technical Seismology*, Thessaloniki, A, 195−203, November 2001.

460. Chronopoulos M., **Gazetas G.,** Anastasopoulos I., Gerolymos N., " The Athens Earthquake and the Athens Metro Station of Kerameikos", *Proceedings of the Second Hellenic Conference on Earthquake Engineering and Technical Seismology*, Thessaloniki, A, 185−194, November 2001

461. Gazetas G. , "The 1999 Parnitha (Athens) Earthquake : Soil Effects on Distribution of Damage", *Lessons Learned from Recent Strong Earthquakes,* edited by Atilla M. Ansal, p.p 5-18, *Fifteenth International Conference on Soil Mechanics & Geotechnical Engineering*, Istanbul, 2001.

462. Gazetas G, "SSI Issues in Two European Projects and a Recent Earthquake", *Proceedings of the 2nd US-Japan Workshop on Soil-Structure Interaction (SSI)*, Tsukuba, Japan, 7-9 March, 2001

463. Gazetas G., "Settlement and Bearing Capacity Failure of Adapazari Buildings, during the Nikomidia's Earthquake at 17-8-99" *Proceedings of the 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Vol. 3, pp.69-86, *Athens, 2001.*

464. Anastasopoulos I., Gerolymos N., and **Gazetas G.**, " Possible Causes of the Collapse of an Approach Span of the Nishinomiya-ko Bridge : Kobe 1995". *Proceedings of the 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering, Athens,* Vol. 2, p.p. 83-90, 2001.

465. Asimaki D., Chatzigiannelis Y., Gerolymos N., and **Gazetas G.** , "Lateral Response of Caisson Foundations". *Proceedings of the 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Athens, Vol. 2, p.p. 115-122, 2001

466. Gazetas G., Protopapa E., and Gerolymos N., "The Response of Two Athens Metro Stations in the Parnitha Earthquake : Records and Analysis". *Proceedings of the4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Athens, Vol. 2, p.p. 131-138, 2001

467. Gazetas G., Psarropoulos P., Asimaki D., and Kallou P.B., "Soil and Topographic Amplification of the Seismic Motion in the Parnitha Earthquake (7-9-99)". *Proceedings of the 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Athens, Vol. 2, p.p. 139-146, 2001

468. Kallou P.B., and **Gazetas G.**, "Dynamic Analysis of Nikawa Landslide, Kobe 1995". *Proceedings of the 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Athens, Vol. 2, p.p.171-178, 2001.

469. Kastranta G., and **Gazetas G.,** "G(γ) and ξ (γ) Curves of Gravelly Sand Obtained from Back Analysis of Field Borehole Records". *Proceedings 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Athens, Vol. 2, p.p. 179-184, 2001.

470. Michaelidou An., and **Gazetas G.**, "Dynamic Interaction Between Piles in a two Layered Inhomogeneous Soil". *Proceedings of the 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Vol. 2, p.p. 241-248, 2001

471. Travasarou Th., and **Gazetas G.** , "Maliakos Immersed Tunnel : Linear and Non-Linear Seismic Response Analysis of Soft Marine Clay". *Proceedings of the 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Vol. 2, p.p. 353-360, 2001.

472. Psarropoulos P., and **Gazetas G.,** "The Effect of Soil and Geomorphic Conditions on the Records of the Cefalonia Earthquake Field Laboratory". *Proceedings of the 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Athens, Vol. 2, p.p. 369-376, 2001.

473. Psarropoulos P., **Gazetas G.,** and Mylonakis G., "Seismic Response of the Pile-Foundation of a Bridge in Japan". *Proceedings of the 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Athens, Vol. 2, p.p. 369-376, 2001

474. Psarropoulos P., Klonaris G., and **Gazetas G.** , " Seismic Response of Retaining Walls". *Proceedings of the 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering,* Vol. 2, p.p. 377-385, 2001.

475. Mylonakis G., **Gazetas G.,** Gerolymos N., and Anastasopoulos I., " Detrimental Role of Soil-Structure Interaction and the Collapse of the 18-Pier Fukae Bridge in Kobe", *Recent Advances in Applied Mechanics*, Honorary Volume for Professor A.N.Kounadis, N.T.U.A., p.p.145-159, 2000

476. Kallou P.V., **Gazetas G.,** and Psarropoulos P.N., " A Case History on Soil and Topographic Effects in the 7th September 1999 Athens Earthquake", *Proceedings of the 4th International Conference, on Recent Advances in Geotechnical Earthquake Engineering, and Soil Dynamics,* S.Prakash (Editor), in CDROM, 2000.

477. **Gazetas G.,** and Mylonakis G., " Soil-Structure Interaction Effects on Elastic and Inelastic Structures", *Proceedings of the 4th International Conference, Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics*, S.Prakash (Editor), in CDROM, 2000

478. Psarropoulos P.N., **Gazetas G.,** Mylonakis G., and Tazoh T., (2000), "Soil and Valley Effects in Bridge Foundation Motion", *Proceedings of the 4th International Conference, Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics,* S. Prakash (Editor)*, in CDROM, 2000.*

479. Mylonakis G., **Gazetas G.,** Nikolaou S., and Michaelides O., "The Role of Soil on the Collapse of the Higashi-Nada Bridge (Hanshin Expressway) in the Kobe Earthquake", *Proceedings of the 12th World Conference Earthquake Engineering*, New Zeland, in CDROM, Feb. 2000.

480. **Gazetas G.,** "Overturning and Settlement in Adapazari during the 1999 Izmit (Turkey) Earthquake", *Proceedings of the 1st International Conference on the Kocaeli Earthquake of 17 August 1999*, Instabul, 2-5 December, pp. 407-410,1999.

481. Psarropoulos P.N.& **Gazetas G.,** "Surface and Borehole Accelerograms versus Spectral – Element Simulation of Alluvial Basin in Cefalonia", *Earthquake Geotechnical Engineering,* Seco e Pinto (ed.),Lisbon,Vol 1, pp.157-162, 1999.

482. Bouckovalas G., **Gazetas G.,** & Papadimitriou A.G., "Geotechnical Aspects of the 1995 Aegion, Greece, Earthquake", *Earthquake Geotechnical Engineering,* Seco *e* Pinto (ed.),Lisbon, Vol 2, pp.739-748, 1999.

483. Gerolymos N., **Gazetas G.,** Mylonakis G. "Natural Period and Damping of Bridge–Piers on Piles", *Second International Conference in Geotechnical Earthquake Engineering*, Lisbon, I, 291-296, 1999.

484. Psarropoulos P.N., **Gazetas G.** & Tazoh T., "Seismic Response Analyses of Alluvial Valley at Bridge Site", *Proceedings of the Second International Symposium on the Effects of Surface Geology on Seismic Motion,* Vol.II, pp.841-848, Yokohama, December 1998.

485. Gazetas G., & Mylonakis G., " Wave Interference Models as a Simple Approach to Dynamic Pile–Soil–Pile Interaction", *Proceedings of the 6th US National Conference on Earthquake Engineering,* EERI, 1998.

486. Gerolymos N., **Gazetas G.** and Mylonakis G., "Fundamental Period and Effective Damping of Pile-Supported Bridge Piers", *Proceedings of the Eleventh European Conference on Earthquake Engineering,* Paris, in CDROM, September, 1998.

487. Gazetas G., Dakoulas P., "Seismic Re-Evaluation of Tagus Bridge (Lisbon): Response of the Main Caisson", *Proceedings of the Eleventh European Conference on Earthquake Engineering*, Paris, in CDROM, September, 1998.

488. Gazetas G., Hess P., Zinn R., Mylonakis G., and Nikolaou A., "Seismic Response of a Large Pile Group", *Proceedings of the Eleventh European Conference on Earthquake Engineering*, Paris, in CDROM, September, 1998.

489. Protopapa E., Papastamatiou D., Michaelides O., **Gazetas G.,** "The Ionianet Accelerometer Array : Early Results and Analysis", *Proceedings of the Eleventh European Conference on Earthquake Engineering,* Paris, in CDROM, September, 1998.

490. Kastranta G., **Gazetas G.,** "Performance of Three Quay Walls in Maya Wharf : Kobe 1995", *Proceedings of the Eleventh European Conference on Earthquake Engineering,* Paris, in CDROM, September, 1998.

491. Travasarou Th., **Gazetas G.,** and Protopapa E., "Soil-Dynamics Studies for the Maliakos-Gulf Immersed Highway Tunnel", *Proceedings of the Eleventh European Conference on Earthquake Engineering,* Paris, in CDROM, September, 1998.

492. Michaelides O. and **Gazetas G.** "Investigation of the Causes of Success of the Aegion Harbor Quaywall in the Aegion 1995 Earthquake"*, Proceedings of the 1st Ports and Harbors Conference,* Athens, 1998

493. Kastranta G. and **Gazetas G.** "Geotechnical Analysis of the Observed Behaviour of three quaywalls in Maya Wharf, Kobe 1995"*, Proceedings of the 1st Ports and Harbors Conference*, Athens, 1997.

494. Loukakis K. and **Gazetas. G.** "Cut-and-Cover Stations, Athens METRO: Field Monitoring and Back Analysis", *Proceedings of the 3rd Hellenic Conferece on Geotechnical Engineering,* Patras, 1, 297–314 1997.

495.Gazetas G. and Loukakis K. "Pier Foundation of the New Highway Bridge over Corinth Canal ", *Proceedings of the 3rd Hellenic Conferece on Geotechnical Engineering,* Patras, 1, 171–178, 1997.

496. Kanakari L., **Gazetas G.,** and Loukakis K. "Phaneromeni Dam Naxos : Dynamic Analysis of Concrete-Face Rockfill Dam", *Proceedings of the 3rd Hellenic Conferece on Geotechnical Engineering,* Patras, 1, 339–346, 1997.

497. Michaelides O., Loukakis K. and **Gazetas G.** "Analysis of Bearing Capacity of Footing Under Later Excitation", *Proceedings of the 3rd Hellenic Conferece on Geotechnical Engineering,* Patras, 1, 209–216, 1997.

498. Michaelides O., Mylonakis G., **Gazetas G.,** Louka E. and Goufa E. "Analysis of the Failure of Higashi-Nada Bridge (Hanshin Expressway) in Kobe : the Double Role of Soil", *Proceedings of the 3rd Hellenic Conferece on Geotechnical Engineering,* Patras, 1, 519–527, 1997

499. Michaelides O., **Gazetas G.** and Bouckovalas G. "Axial and Lateral Nonlinear Dynamic Response of Piles", *Proceedings of the 3rd Hellenic Conferece on Geotechnical Engineering,* Patras, 1, 435–442, 1997.

500. Kitrilakis N., Mylonakis G., Michaelides O. and **Gazetas G.** "Dynamic Pile-Soil Interaction under Vertical Seismic Excitation", *Proceedings of the 3rd Hellenic Conferece on Geotechnical Engineering,* Patras, 1, 497–514 1997

501. Nikolaou A. and **Gazetas G.,** "Seismic Design Procedure for Kinematically Stressed Piles", *Seismic Behaviour of Ground and Geotechnical Structures,* Pedro S. Seco e Pinto, Editor, *Proceedings of the Fifteenth International Conference on Soil Mechanics & Geotechnical Engineering,* pp. 253-260, Hamburg 1997.

502. Yegian M.K., **Gazetas G.,** and Arzoumanidis S.G., " Geotechnical Factors Influencing the Spatial Variability in Ground Motions for Bridges", *Structural Engineering Congress*, ASCE, 1997.

503. Perissoratis C., Zacharaki P. E. Zimianitis & **G. Gazetas** " Contribution of Marine Geology to Engineering Projects : Maliakos Sumberged Tunnel and Aegion Harbor", *Proceedings of the International Symposium on Engineering*, *Geology and the Environment, P.* Marinos, G. Koukis & K. Stournaras editors, Balkema, Publ., 23-27 June 1997.

504. azetas G. and Loukakis K. ,"Foundation Design of the New Seismically-Isolated Bridge over Corinth Canal", *Bulletin of the Greek Society of Civil Engineers,* Vol. 1, pp. 36–40, 1997

505. Michaelides O. and **Gazetas G.** "Dynamic Analysis of the Failure of the Higashi-Nada Bridge in the Kobe Earthquake"*, Proceedings of the 12th Greek Conference on Concrete*, Limasol, Vol. III, pp.236–244, 1996.

506. Loukakis K. and **Gazetas G.** "Behaviour of Elastoplastic R.C. Structures in the Aegion 1995 Earthquake", *Proceedings of the 12th Greek Conference on Concrete*, Limasol, Vol. III, pp. 248–255, 1996.

507. Gazetas G., and Nikolaou A., "Kinematic Bending Moments in Piles : Developments for New-Code Revisions", *Proceedings of the 11th World Conference on Earthquake Engineering,* Acapulco, Mexico, paper No. 2054, June 1996, (in CD-ROM).

508. Tazoh T., and **Gazetas G.,** "Pile Foundations subjected to Large Ground Deformations: Lessons from Kobe and Research Needs", *Proceedings of the 11th World Conference on Earthquake Engineering*, Acapulco, Mexico, paper No. 2081, June 1996 (in CD-ROM).

509. Gazetas G., Mylonakis G., & Nikolaou A.,"Simple Methods for the Seismic Response of Piles, Applied to Pile-Bridge Interaction", *Proc. 3rd International Conference on Recent Advances in Geotechnical Earthq. Engrg. and Soil Dynamics,* St. Louis, Vol. III, 1547-1556, 1995.

510. Bouckovalas G., **Gazetas G.,** & Stavrakakis G., "Source Mechanism and Soil Effects in the 1993 Pyrgos (Greece) Erathquake", Prc. 5th Int. Conf. on Seismic Zonation, Nice, France, Vol.II, 972-979, 1995

511. Yegian M.K., **Gazetas G.,** Dakoulas P., Makris N., & Ghahraman V.G., "Geotechnical Aspects of the Northridge 1994 Earthquake", Proc. 3rd *International Conference on Recent Advances in Geotechnical Earthq. Engrg. and Soil Dynamics*, St. Louis, Vol. III, 1383-1389, 1995.

512. Yegian M. K., Ghahraman V. G., & **Gazetas G.,** "Soil Amplification Effects on Building Damage during the 1988 Armenia Earthquake", *Proc. 7th European Conference on Earthquake Engineering*, Vienna, 1994.

513. Kavvadas M. & **Gazetas G.** , "Harmonic Kinematic and Inertial Response of Single Pile", *Proc. Earthquake Resistant Construction & Design*, Berlin, 1994

514. Gazetas G., Tazoh T., Shimizu K., Fan K., "Seismic Response of the Pile Foundation of Ohba-Ohashi Bridge," Proc. 3rd *Int. Conf. on Case Histories in Geotech. Engrg*., Vol. 3, pp. 1803-1809, 1993.

515. Yegian M.K., **Gazetas G.,** & Ghahraman V.G., "Soil Response during the 1988 Armenia Earthquake", *Proc. 3rd Int. Conf. on Case Histories in Geotech. Engrg*., pp. 1701-1707, 1993.

516. Gazetas G., "Seismic Soil-Pile Interaction for Ag. Stefanos Bay Bridge," *Proc. 2nd Greek Geotechnical Conference*, Thessaloniki, Vol. 2, pp. 223-230, 1992.

517. Kavvadas M. & **Gazetas G.,** "Seismic Pile Response in Layered Soil," *Proc. 2nd Greek Geotechnical Conference*, Thessaloniki, Vol. 2, pp.231-238, 1992.

518. Bouckovalas G. & **Gazetas G.** "Soil Parameters for Nonlinear Analysis of Axial Vibration," *Proc. 2nd Greek Geotechnical Conference*, Thessaloniki, Vol. 2, pp.273-280, 1992.

519. Stara E., & **Gazetas G.,** "Seismic Stability of Twin Embankments for the Rail-Highway Crossing of Megara Bay", *Proc. 2nd Greek Geotechnical Conference*, Thessaloniki, Vol.2, pp.289-296, 1992.

520. Younis C J & **Gazetas G.** " Seismic Response of a Suspension-Bridge Tower-Pier System on Rocking Elastic Foundation with Frictional Slippage ", *Proc. 3rd Hellenic Conference on Theoretical and Applied Mechanics*, Athens, 1992.

521. Papastamatiou, D. & **Gazetas G.** "Site-Specific Seismological Study and Design Ground Motions for the Corinth Canal Bridges," *Proc. 1st Hellenic Conference on Earthquake Engineering*, Vol. 2, 1992.

522. Constantinou M.C. & **Gazetas G**., "Forthcoming Applications of Seismic Isolation in Greece," *Post-SMiRT Conference on Base Isolation*, Nara, Japan, 1991

523. Gazetas G. & Dakoulas P. "Aspects of Seismic Analysis and Design of Rockfill Dams," State-of-the-Art paper, Proc. 2nd International Conference on Recent *Advances in Geotechnical Earthq. Engrg. and Soil Dynamics*, St. Louis, Vol. II, pp. 1851-1889, 1991. (Presented as Keynote Speech)

524. Gazetas G. & Dakoulas P. "Seismic Design Chart for Anchored Bulkheads," Proc. 2nd International Conference on Recent Advances in Geotechnical Earthq. Engrg. and Soil Dynamics, St. Louis, Vol. 1, pp. 667-674. Also appeared (with minor changes) in the *Proc. of the 3rd US-JAPAN Workshop on Earthquake Resistant Design of Lifeline Facilities and Liquefaction*, NCEER-91-0001, pp. 233-254, 1991.

525. Gazetas G. "Displacements and Soil-Structure Interaction under Dynamic and Cyclic Loading," General Report of Session 5, *X European Conference on Soil Mechanics and Foundation Engineering,* Florence, Italy, Vol. III, pp. 1091-1104, 1991.

526. Gazetas G., Dakoulas P. & Dennehy K., "Empirical Seismic Design Method for Waterfront Anchored Sheetpile Walls," in *Design and Performance of Earth Retaining Structures*, ASCE, pp. 232-250, 1990.

527. Makris N., **Gazetas G.,** & Fan K., "Analytical Results for Pile-Soil-Pile Interaction in Vertical Harmonic Motion" *Proc. Earthq. Resistant Design & Construction*, W. Berlin, A.A. Balkema Publ., 1990.

528. Makris N. & **Gazetas G.** "Dynamic Response of Pile Groups," *Proc. 4th Int. Conf. Soil Dynamics & Earthq. Engineering*, Mexico City, Volume on Soil Dynamics, pp. 263-276, 1989.

529. Makris N. & **Gazetas G.,** "Vibration of Pile Groups in Nonhomogeneous Soil," *2nd Nat'l Congress on Theoretical & Applied Mechanics*, Athens, 1989.

530. Gazetas G., "The Role of Soil in the Mexico 1985 and the Kalamata 1986 Earthquakes," *Proceedings 1st Greek Conference of Geotechnical Engineering*, Vol. 3, pp. 15-54, 1988, (Presented as a Keynote Speech).

531. Gazetas G., "Back Analysis of Lateral Pile-Load Test to Estimate Shear Modulus of Rockfill, "*Proc. 1st Greek Conference of Geotechnical Engineering*, Vol. I, pp.134-139, 1988, and XII Int. Conference on Soil Mechanics & Foundation Engineering, Rio de Janeiro, Vol. II, pp. 833-836, 1989.

532. Gazetas G., "Soil Arching Causes Failure of Racker Braced Wall," *Proc. 1st Greek Conference of Geotechnical Engineering*, Vol. I, pp.201-206, 1988.

533. Hardaloupa E. & **Gazetas G.,** "Vertical Vibration of Embedded Foundations: Experimental Verification," *Proc. 1st Greek Conference of Geotechnical Engineering*, Vol. II, pp. 153-158, 1988.

534. Tsouloupa E., **Gazetas G.,** Kortontzelos, D., "Dynamic Soil-Pile-Structure Interaction," Proc. 1st Greek Conference on Soil Mechanics & Foundation Engineering, Vol. II, pp. 147-152, 1988.

535. Kotta N., Tsamis V., & **Gazetas G.,** "Investigation of Quay-Wall Failure in the Kalamata 1986 Earthquake," *Proc. 1st Greek Conference of Geotechnical Engineering*, Vol. II, pp. 69-74, 1988.

536. Gazetas G. "Thoughts for a More Rational Geotechnical Terminology," *Proc. 1st Greek Conf. on Geotechnical Engrg.*, Vol. 3, 73-78, Dec. 1988.

537. Dobry R. and **Gazetas G.,** "Dynamic Stiffness and Damping of Foundations by Simple Methods, " *Vibration Problems in Geotechnical Engineering*, ASCE, 1985, G. Gazetas and E. T. Selig, editors, pp. 75-107. (Received the 1985 Outstanding Geotechnical Publication Award of the Hudson Mohawk Section of ASCE).

538. Dakoulas P. and **Gazetas G.,** "Nonlinear Seismic Response of Embankment Dams," *2nd Int. Conf. Soil Dynamics,* pp. 5-29/43, Springer-Verlag, June 28-July 3, 1985.

539. Gazetas G. and Ng, T.P., "Simplified Model for Impedances of Footings on Layered Soils," *2nd Int. Conf. Soil Dynamics*, pp. 4-37/50, Springer-Verlag, June 28-July 3, 1985.

540. Gazetas G., "New Method for Dynamic Impedance of Piles," Recent Advances in Engineering Mechanics and Their Impact on Civil Engineering, *Proceedings of the Engineering Mechanics Specialty Conference*, ASCE, Purdue University, Vol. 1, pp. 182-185, May 1983.

541. Mohamad R., Dakoulas P., **Gazetas G.** and Dobry R., "Liquefaction Flow Failure of Earth Dams," *XI International Conference on Soil Mechanics and Foundation Engineering*, August, 1985.

542. Dobry, R., Mohamad R., Dakoulas, P. and **Gazetas G.,** "Liquefaction Evaluation of Earth Dams -- A New Approach," *8th World Conference on Earthquake Engineering*, San Francisco, July 21-28, 1984.

543. Gazetas G., "Rocking of Strip and Circular Footings," *Proceedings, International Symposium on Dynamic Soil-Structure Interaction*, University of Minnesota, Sept. 1984.

544. Constantinou M. and **Gazetas G.,** "Probabilistic Prediction of Seismic Sliding Deformations of `Earth Dams and Slopes," *Probabilistic Mechanics & Structural Reliability*, ASCE, EMD Specialty Conference, University of California, Berkeley, January 1984.

545. Gazetas G. "Anisotropic Model for Clays: Theory and Experimental Calibration", *International Symposium on Numerical Models in Geomechanics*: Verification, Evaluation and Application, Zurich, Switzerland, Sept. 7-10, Vol. 1, pp. 139-146, 1982.

546. Gazetas G., and Abdel-Ghaffar A.M., "Earth Dam Characteristics from Full-Scale Vibration", *Proceedings of the X International conference on Soil Mechanics, and Foundations Engineering*, Session 10, Paper 7, pp. 207-211, Stockholm, June, 1981.

547. Gazetas G., and Petrakis E., "Off-shore Caissons on Porous Saturated Soil" *International Conference on Recent Advances in Geotechnical, Earthquake Engineering and Soil Dynamics* Vol. 1, pp. 381-387, St. Louis, April, 1981.

548. Gazetas G., and Botsis, J., "Local Soil Effects and Liquefaction in the Thessaloniki Earthquakes of 1978", *International Conference on Recent Advances International Earthquake Engineering and Soil Dynamics*, Vol. 3, pp. 1205-12l3, St. Louis, April, 1981 (invited presentation).

549. Gazetas G., "Importance of Soil Anisotropy on Foundation Displacement Functions" *International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics*, Vol. 3, pp. 1039-1046, St. Louis, April, 1981.

550. Gazetas G., "3-`Dimensional Lateral and Longitudinal Seismic Stability of Earth and Rockfill Dams", *Proc. 7th World Conference on earthquake Engineering*, Vol. 8, pp. 109-115, Istanbul, 1980.

551. Gazetas G., and Bianchini, G., "Field Evaluation of Shear and Rayleigh-Wave Soil-Amplification Theories", *Proceedings of the 2nd U.S. National Conference on Earthquake Engineering*, Vol. 1, pp. 603-612, Stanford University, 1979.

552. **Gazetas G.,** and Roesset, J.M., "Plane-Strain Soil-Structure Interaction for Seismic Response", *Proc. 6th Symposium on Earthquake Engineering*, Vol. 1, pp. 259-264, University of Roorkee, India, 1978.

553. **Gazetas G.,** "Effect on Foundation Vibrations on Nearby Structures", *Proc. 6th Symposium on Earthquake Engineering*, Vol. 1, pp. 253-258, University of Roorkee, India, 1978.

554. **Gazetas G.,** and Roesset J.M., "Forced Vibrations of Strip Footings on Layered Soils", *Proc. ASCE Specialty Conference on Methods of Structural Analysis, dynamic Soil-Structure Interaction Session*, Vol. 1, pp. 115-131, Madison, 1976.

555. **Gazetas G.,** and Tassios T., "Limit Analysis of Flexible Circular Mat Foundation", *Proc. 3rd Greek Symposium on Concrete Structures* Vol. 1, Chios, Greece, 1977.

556. **Gazetas G.,** and Protonotarios J., Geotechnical Problems in Bridging to Rio- Antirrio Canal Due to Earthquake Induced Vibrations", Proc. International Conference of Bridging Rio-Antirrio Canal Vol. 1, pp. 15-69, University of Patras, Patras, Greece, Sept., 1977.

557. **Gazetas G.,** and Vanmarcke E.H., "Stochastic Prediction of Seismic Response of Inelastic M-Dof Structures", *Proc. 6th World Conference on Earthquake Engineering*, Vol. 3, pp. 97-102, New Delhi, India, Jan., 1977.

558. **Gazetas G.,** and Vanmarcke E.H., "Approximate Random Vibration Analysis of Elastoplastic Multi-Degree-of-Freedom Structures", *Proc. International Symposium on Earthquake Structural Engineering*, Vol. II, pp. 961-974, 1976.

Research Reports

- Tasiopoulou P., Smyrou E., Bal I.E., **Gazetas G.,** Vintzileou El., "Geotechnical and Structural Field Observations from Christchurch, February 2011 Earthquake, in New Zealand", Research Report, NTUA, website :
- http://geoengineer.org/files/Tasiopoulou_et_al_2011.pdf , October 2011.
- Tazoh T., Drosos V., Kourkoulis R., & **Gazetas G.**, "Field Reconnaissance Report on the Geotechnical Damage caused by the Niigata-ken Chuetsu, Japan Earthquake of October 23, 2004", Research Report , *website : http://www.users.ntua.gr/gazetas,* 2005
- Mylonakis G., **Gazetas G.,** Nikolaou S., & Chauncey A., "Development of Analysis and Design Procedures for Spread Footings", Technical Report MCEER–02–0003, October 2003..
- Michaelides O., **Gazetas G.,**and Loukakis K., "The January 17, Kobe Earthquake : the Role of Soil and the Damage in Bridges and Harbors", *Research Report National Technical University of Athens* 1995
- **Gazetas G**. "Analysis of Dynamic Response of Bridge Pile Foundations during Earthquakes," *Final Report to Shimizu Co.*, Japan, 1992
- Dakoulas P., Dobry R., Vasquez-Herrera, A., Ng, T.T., & **Gazetas G.,** "Seismic Response and Liquefaction Triggering of the Lagunillas Dyke Section," *Research Report to INTEVEP*, Venezuela, October 1991.
- **Gazetas G.,** Fan, K., Kaynia, A., & Kausel, E. "Dynamic Interaction Factors for Floating Pile Groups," *Tech. Report NCEER-90-0021*, 1991.

- **Gazetas G.,** "ANILAY - A Computer Program for the Dynamic Response of Strip Footings On Layered Cross-Anistropic Soils," *Research Report to N.S.F., CE 82-05, Department of Civil Engineering, Rensselaer Polytechnic Institute*, Troy, NY, 1982.
- **Gazetas G.,** "Deformational Soil Anisotropy: Experimental Evaluation and Mathematical Modelling", *Research Report to N.S.F., CME Division, Department of Civil Engineering, Case Western Reserve University*, Publication No. 8102, 1981.
- Botsis J. and **Gazetas G.,** "A New Anisotropic Harding Softening Plasticity Model for Overconsolidated Clays", *Research Report, Department of Civil Engineering, Case Western Reserve University*, Publication No. 8103, 1981.
- **Gazetas G,.** "Stress-Strain-Strength Behavior of Overconsolidated Kaolinite", *Research Report, Department of Civil Engineering, Rensselaer Polytechnic Institute*, 1981.
- **Gazetas G.,** "Random Vibration Analysis of Inelastic M-DOF Systems Subjected to Earthquake Ground Motions", *MIT Research Report* R-76-39, Order No. 556, Department of Civil Engineering, MIT, August, 1976.
- Arnold P., Vanmarcke E.H. and **Gazetas G.,** "Frequency Content of Ground Motions During the 1971 San Fernando Earthquake", *MIT Research Report* R-76-3, Order No. 526, Department of Civil Engineering, MIT, January, 1976.
- Vanmarcke E.H., Biggs J.M., Frank R., **Gazetas G.,** Arnold P., Gasparini D., and Luyties W., "Comparison of Seismic Analysis Procedures for Elastic M-DOF Systems", *MIT Research Report* R-76-6, Department of Civil Engineering, MIT, 1976.

Editor of Books and Proceedings

- G. Gazetas and E.T. Selig, editors, ***Vibration Problems in Geotechnical Engineering***, Proceedings of a Symposium Sponsored by the Geotechnical Engineering Division, ASCE, October 1985, pp. 303.
- G. Gazetas, Y.Goto, T. Tazoh, editors, ***Seismic Analysis, Design, and Retrofit of Foundations***. Proceedings of the 1st Greece-Japan Workshop, Athens, October 2005, pp.457.
- T. Katayama, G. Gazetas, editors, ***Seismic Analysis, Design, and Retrofit of Foundations.*** Proceedings of the 2nd Japan - Greece Workshop, Tokyo April 2007, pp. 536
- G. Gazetas, editor, 3rd Greek National Conference on Earthquake Engineering and Engineering Seismology, Athens November 2008, pp. 356
- G. Gazetas, Y.Goto, T. Tazoh editors, ***Seismic Analysis, Design, and Retrofit of Foundations.*** Proceedings of the3rd Greece-Japan Workshop, Santorini October 2009, pp. 692
- G. Gazetas, N. Gerolymos, I. Anastasopoulos, R. Kourkoulis, V. Drosos, P. Georgarakos, F. Gelagoti, Ev. Garini, ***Seismic Soil-Structure Interaction: Applications to Infrastructure Projects***, Athens, 2009, pp. 270
- T. Tazoh, G. Gazetas, editors, ***Seismic Design of Foundations, Innovations in Seismic Design and Protection of Cultural Heritage.*** Proceedings of the 4th Japan - Greece Workshop, Kobe October 2011, pp. 575
- G. Michaltsos, G. Gazetas, editors ***Innovations on Bridges and Soil-Bridge Interaction,*** Proceedings of the International Conference on Bridges, Athens, October 2011

Textbooks

- Soil Dynamics and Earthquake Engineering – Case Histories, SYMEON Publishers, Athens 1996. (317 p. Greek)
- Reprints of Articles of Soil Dynamic and Geotechnical Mechanics 1997-1998. NTUA 1998
- Soil Dynamics Notes . (412 pp ., in English).
- Geotechnical Engineering Notes . (310 pp ., in English).
- Soil Mechanics Notes. (252 p.p. manuscript, in Greek, last edition 2012)
- Soil Dynamics Notes. (320 p.p. manuscript, in Greek, last edition 2009)
- Soil - Structure Interaction (manuscript, in Greek, last edition 2010)

Recent Textbooks that have adopted Methods / Solutions developed by G. Gazetas and his co-workers

1 . J. BOWLES: "Foundation Analysis and Design," McGraw-Hill, 1988, 4th Edition: Chapter 20, Design of Foundations for Vibration Control., pp. 894-937, is based (almost exclusively) on the methods for analysis of arbitrarily-shaped foundations developed in:

Dobry, R. and Gazetas, G., "Dynamic Response of Arbitrarily-Shaped Foundations," 1986.

Gazetas, G., Dobry, R. and Tassoulas, J., "Vertical Response of Arbitrarily-Shaped Embedded Foundations,", 1985.

Dobry, R. and Gazetas, G., "Dynamic Stiffness and Damping of Foundations by Simple Methods, 1985.

(see list of publications)

2. S. PRAKASH & V. K. PURI: "Foundation for Machines, Analysis and Design" J. Wiley, 1988. Section 11.5, Compliance-Impedance Function Approach, pp. 482-489, has been taken (by permission of the author) from:

Gazetas, G., "Analysis of Machine Foundation Vibrations: State-of-the-Art, 1983.

Furthermore, chapters 6 and 11 make numerous references to methods and procedures developed in:

Dobry, R. and Gazetas, G., "Dynamic Response of Arbitrarily-Shaped Foundations," 1986.

Dobry, R., Gazetas, G. and Stokoe, K.H. "Dynamic Response of Arbitrarily-Shaped Foundations: Experimental Verification," 1986.

Gazetas, G., Dobry, R. and Tassoulas, J., "Vertical Response of Arbitrarily-Shaped Embedded Foundations, 1985.

Dobry, R., and Gazetas, G., "Dynamic Stiffness and Damping of Foundations by Simple Methods," 1985.

3. D. J. DOWRICK: "Earthquake Resistant Design," J. Wiley, 1987, 2nd Edition: Section 6.3, Seismic Response of Soil-Structure Systems, and Section 6.4, Aseismic Design of Foundations, make repeated references and summarize results and conclusions from:

Gazetas, G. and Dobry, R., "Simple Radiation Damping Model for Piles and Footings," 1984.

Of particular importance is the adoption of the apparent wave velocity, V_{La}, introduced in*:* *Dobry, R. and Gazetas, G., "Dynamic Response of Arbitrarily-Shaped Foundations," 1986.*

Gazetas, G. Dobry, R. and Tassoulas, J., "Vertical Response of Arbitrarily-Shaped Embedded Foundations," 1985.

4. J. P. WOLF: "Soil-Structure Interaction in Time Domain," Prentice-Hall, 1988: Repeated use of concepts developed in:

Gazetas, G., "Analysis of Machine Foundation Vibrations: State-of-the-Art," 1983.

Gazetas, G., "Rocking of Strip and Circular Footings," 1984

5. J. G. SIEFFERT & F. CEVAER: "Manual Des Fonctions D ' Impedance" Quest Editions, Paris, 1992: Makes use of numerous results for foundation impedances from:

Gazetas G. "Analysis of Machine Foundations,: State-of-the-Art," 1983.

Gazetas G. & Roesset J.M. "Forced Vibrations of Strip Foundation in Layered Soil", 1976.

The effect of the first of the above publications on this Manual is reflected on the author's statement in their introduction that*: "...This deliberate choice [for user-friendly parametric results]..., basically sets this work apart from the synthetic study published by GAZETAS in 1983 which remains the work of reference in terms of scientific analysis of the contribution of all the authors on this subject."* (emphasis as in the book).

6.J.P. WOLF: "Foundation Vibration Analysis Using Simple Physical Models", Prentice-Hall 1994. Repeated reference to fundamental concepts and ideas from the papers:

Dobry, R. & Gazetas, G., "Simple Methods for Dynamic Stiffness and Damping of Floating Pile Groups," Geotechnique, Vol. 38, No. 4, pp. 557-574, 1988.

Gazetas, G. & Dobry, R., "Simple Radiation Damping Model for Piles and Footings," Journal of Engineering Mechanics ASCE, Vol.110, No.6, pp.937-956, 1984.

Gazetas, G., "Simple Physical Methods for Foundation Impedances," Dynamics of and Underground Structures Elsevier Applied Science, Chapter II, pp.40-97, 1987.

Gazetas, G., "Foundation Vibrations," Foundation Engineering Handbook, 2nd Edition, H.Y. Fang, Ed., Van Nostrand Reinholds, Chapter 15, pp.553-593,1991.

Gazetas, G., "Formulae & Charts for Impedance Functions of Surface and Embedded Foundations," Journal of Geotechnical Engineering, ASCE, Vol. 117, No. 9,pp.1363-1381, 1991.

Gazetas, G. & Makris, N., "Dynamic Analysis of Pile-Soil-Pile Interaction. Part I: Analysis of Axial Vibrations," Earthquake Engineering and Structural Dynamics, Vol. 20, No. 2, pp. 115-132, 1991.

Makris, N. & Gazetas, G., "Dynamic Soil-Pile Interaction. Part II. Lateral and Seismic Response," Earthquake Engineering & Structural Dynamics, Vol. 21, No. 2 pp. 145-162, 1992.

7. S.L. KRAMER : "Geotechnical Earhquake Engineering", Prentice Hall 1996 : The sections on the 2D and 3D Seismic Response of Earth Dams (p.p 286-293) present the methods and results developed in :

Gazetas, G., "Seismic Response of Earth Dams: Some Recent Developments, " Soil Dynamics and Earthquake Engineering, Vol. 6, No. 1, 1987, State-of-the-Art Volume, pp.1-48, (presented as Keynote Speech at the 2nd Int. Conf. Soil Dyn. & Earthq. Engrg., June 28-July 3, 1985).

Gazetas, G., "Shear Vibrations of Vertically Inhomogeneous Earth Dams", International Journal for Numerical and Analytical Methods in Geomechanics, Vol.6, pp. 290-241, 1982.

Dakoulas, P. and Gazetas, G., "A Class of Inhomogeneous Shear Models for Seismic Response of Dams and Embankments," Soil Dynamics and Earthquake Engineering, Vol. 4, No. 4, pp. 166-182, 1985.

Dakoulas, P. and Gazetas, G., "Seismic Shear Strains and Seismic Coefficients in Dams and Embankments, "Soil Dynamics and Earthquake Engineering, Vol. 5, No. 2, pp. 75-83, 1986.

Dakoulas, P. and Gazetas, G., "Seismic Lateral Vibration of Embankment Dams in Semi-Cylindrical Valleys," Earthquake Engineering and Structural Dynamics, Vol. 14, pp. 19-40, 1986.

The section on Seismic Design of Anchored Bulkheads (p.p 496-500) presents the method and results developed in :

Gazetas G., Dakoulas P. & Dennehy K., "Empirical Seismic Design Method for Waterfront Anchored Sheetpile Walls," in Design and Performance of Earth Retaining Structures, ASCE, pp. 232-250, 1990.

8. M. BUDHU : "Soil Mechanics & Foundations" , John Wiley & Sons, 2000: Two sections, one on "Immediate Settlement of Foundations"and one on "Horizontal Elastic Displacement and Rotation" (pp. 342-347 and 356-357, respectively) are wholly devoted to presenting the methods for vertical and lateral deformations of embedded foundations developed in :

Gazetas, G. & Stokoe K.H., "Free Vibration of Embedded foundations: Theory vs. Experiment," Journal of Geotechnical Engineering, ASCE, Vol. 117, No. 9, pp. 1382-1401, 1991.

Gazetas, G. and Hatziconstantinou, C.,"Elastic Formulae for Lateral Deflection and Rotation of Arbitrarily Shaped Embedded Foundations," Geotechnique, Vol. 38, No. 3, pp. 439-444, 1988.

Gazetas, G., Dobry, R. and Tassoulas, J., "Vertical Response of arbitrarily-Shaped Embedded Foundations," Journal of Geotechnical Engineering ASCE, Vol. 111, No. GT6, pp. 750-771, 1985.

MAJOR CONSULTING PROJECTS

Bridges /Excavations / Retaining Structures / Tunnels / Special Foundations / Dams / Harbors

(a) SPECIAL FOUNDATION and EARTHQUAKE ENGINEERING PROJECTS

New Quito Airport Control Tower, Ecuador (2008)
Referee on the foundation design of the 45 m high slender tower on improved collapsible soil in a region of high seismicity. Key issues : Sliding and bearing capacity of the circular D = 23 m foundation under seismic design loads.

Hotel Resort in Southern Greece (confidential), South Hotel Pilot Study (2006) : "Pilot" study of characteristic hotel building under fault rupture–induced soil deformation. Analysis of Fault Rupture–Soil–Foundation–Structure Interaction, exploration of alternative foundation schemes, and design of foundation and superstructure, in cooperation with the structural engineer, to sustain possible tectonic dislocation.

Fish-Wharf Building, Volos, Greece (2006)
Dynamic time-domain analysis of the kinematic response of the piled foundation within organic soil, parametric analysis of various pile diameters, and foundation design proposal taking into account both kinematic and inertial dynamic loading.

Parnitha, Casino Mont Parnes (2004)

Geotechnical–geological evaluation, and geotechnical design of the foundations of the piers of the new cable-car.

SPIE, Turnout Crossings of the Athens Metro, Attiko Metro, Greece (2003) : Performance assessment of one of the proposed solutions that was selected by the constructor (SPIE) to be implemented. Three-dimensional non-linear finite element time domain analysis of the system. The proposed solution was finally applied successfully.

Olympic Stadium - Calatrava, Greece (2002)
Design of the foundation of several structures to be constructed for the renovation of the Olympic Stadium for the Olympic Games of 2004, including two 300 m – in span arches covering the Stadium, for the design and construction competition.

Turnout Crossings of the Athens Metro, Greece (2002)
Investigation on the causes of fatigue failure of base plate assemblies at the areas of rail turnouts: Three dimensional finite element analysis of the dynamic response of the sleeper foundation. Study and analysis of possible corrective measures.

International Broadcasting Centre (IBC), Olympic Stadium of Athens, Greece (2001) : Geotechnical assessment, three-dimensional finite element analysis and design of the foundation, assessment of settlements during and after construction.

Silo Retrieval Building, Sellafield, UK (2001)
Seismic verification studies of the mini-pile and caisson alternative foundations schemes, for a nuclear waste retrieval building.

Olympic Village, OEK, Greece (2000-present)
Consultant for developing design criteria, and for checking the conceptual and final design of the buildings of the Olympic Village. Design and supervision of geotechnical investigation. Seismic Microzonation study based on the findings of a major research effort on the effects of the Parnitha Earthquake. Development of new seismic design requirements.

Water Intake Tower, Gadouras Dam, Greece (2001)
Seismic analyses of the tower, based on a 3D finite-element model. Ground motion study ; hydrodynamic interaction between tower and surrounding water; dynamic interaction between tower base and the supporting foundation soil ; sliding and uplifting of the tower base from the supporting soil ; impact between the tower base and the attached cut-and-cover tunnel.

Effect Metro Tunnel on Ministry of Economy Building Seismic Response, Greece (1999)
Study of the effect of the presence of the TBM tunnel (that had stalled after it had crossed the building) on the stability and seismic safety of the building. The study included back analyses of the daily settlements observed during the TBM passage, and dynamic soil-foundation interactions analyses. (The predictions of the analyses were validated during the 7-9-99 Parnitha Earthquake.)

LNG Storage Tanks, Revithousa, Greece (1992-1994)
Consultant to Owner, and analyst on: the stability of the 26m-deep excavation in weathered/jointed rock; design of innovative retaining system ; evaluation of the seismic performance of the base isolation system; analysis and design of alternative seismic isolation systems; seismology of Revithousa, with emphasis on long-period accelerations ; study of effects of potential faults existing under the foundation.

LNG Terminal Retaining Walls, Revithoussa, Greece (1996)
Static and dynamic evaluation of high-safety retaining wall, quaywalls, and embankment.

Hartlepool Nuclear Power Station, U.K. (1995-1996)
Consultant to the Health and Safety Executive, Division of Nuclear Safety, relating to the seismic response of the piled containment structures (seismic re-evaluation of the 20 year old nuclear plant).

Brunsbüttel Reactor Building, GERMANY (1993-1998)
Dynamic response analysis of 230 pile-group and embedded foundation in soft organic clay; seismic analysis of pile distress; participation in the analysis of soil--structure interaction for the containment building; effect of blast loading.

Koutloumousion Monastery, Athos, Greece (1997)
Design and analysis of retaining measures against long-term landsliding.

Failure of E.B.O. Building, M=6.4 Aegion Earthquake, June 1995, Greece (1995)
Investigation of seismological, geotechnical , and structural causes of failure of soft-first-story buildings.

Long Term Seismic Program of Diablo Canyon Nuclear Power Plant, California, U.S.A (1985-1989)
Panel of Consultants to the Nuclear Regulatory Commission (NRC), with emphasis on the Seismic Soil-Structure Interaction and Seismic Ground Motion Studies.

(b) EXCAVATIONS, RETAINING STRUCTURES, TUNNELS
Analysis & Design

Parnitha, Casino Mont Parnes (2004)
Soil exploration and geological investigation. Geotechnical design of the foundations for the support towers of a new cable car, used for access to the New Casino in Mont Parnes.

SPIE Turnout Crossings of the Athens Metro, Greece (2003) :
Performance assessment of one of the proposed solutions that was selected by the constructor (SPIE) to be implemented in the Athens Metro. Three-dimensional non-linear dynamic time hiostory analysis of the system, taking account of foundation imperfections. The proposed solution was finally applied successfully, without experiencing any problems until today.

PATHE Highway : Aseismic Design of Cut-and-Cover Tunnels of the Kamena Vourla Bypass (2004)
Analysis of Fault Rupture–Soil–Tunnel Interaction of 5 Cut-and-Cover tunnels at the Kamena Vourla Bypass. Computation of section forces due to faulting-induced dislocation. Non-linear dynamic time-history analysis and computation of dynamic section forces due to strong seismic shaking.

Olympic Stadium Opening Ceremony Shaft, Greece (2004)
Analysis, design and observation of the three-dimensional pile support of a deep (25 m) shaft constructed in the centre of the Olympic Stadium for the Opening Ceremony of the Olympic Games of Athens 2004.

Investigation on the Causes of Failure of the Doukisis Plakentias Tunnel (2003)
Forensic investigation of the collpased tunnel. Investigation of possible collapse scenarios through 2D finite element analysis. Evaluation of the most probable causes of collapse.

Turnout Crossings of the Athens Metro, Greece (2002) :
Investigation on the causes of fatigue failure of base plate assemblies at the areas of rail turnouts. Three dimensional finite element analysis of the dynamic response of the sleeper foundation, taking account of foundation imperfactions. Study and analysis of possible corrective measures.

OSE, Rion–Antirrion Undersea Railway Tunnel (2002-2004)
Pre-feasibility study and development of Conceptual design schemes for a proposed undersea railway tunnel, to cross the 2 km long and 70 m deep Rion–Antirrion Straits; geotechnical, geological, and geotectonic investigation; study of the construct-ability and evaluation of different alternatives : bored vs. immersed tunnel.

Station of San Antonio – Athens METRO, Greece (2002)
Analysis and design of the three dimensional anchored tangent–pile support of a deep excavation surrounding the perimeter of an eleven–storey building.

Kapnikarea Church, Athens METRO, Greece (2002)
Evaluation of the effect of the Metro tunnel on the seismic safety of the historic church of Kapnikarea

Athens METRO, Greece (2000-01)
Numerical evaluation of the seismic response of selected Athens Metro Stations, using the accelerograms of the the 7-IX-99 Parnitha earthquake.

Pireas Plaza, Greece (2000-01)
Geotechnical consultant on preliminary design, preparation of the Tender documents, and evaluation of Tender offers for the design of a 13000 m^2 excavation and retaining project in very soft soil : a 13 m deep and about 450 m long (in perimeter) urban excavation high water table , for a 3-storey shopping center with 3 underground parking levels.

Athens METRO, Greece (1999-2000)
Member of 5-person Panel of Experts for the assessment of structural safety of Metro tunnels and stations for lines 2 and 3

Verroia-Polymylos Section, Egnatia Highway, Greece (1999)
Final design and analysis of twin tunnels S6 & S7 and retaining structures (Geotechnical interpretation, design of temporary support).

Driskos Tunnel, Egnatia Highway, Greece (1999)
Preliminary and final design and analysis of the main tunnel, the front portal , the escape tunnel, and several ventilation shafts and crossings.

Parakifisios Sewage Tunnel, Greece (1999)
Design and analysis of the temporary and final support of the tunnel. Design and analysis of the proposed piled wall of the cut-and-cover excavation in very soft clayey and silty soils.

CARS, Larissa, Greece (1999)
Geological / geotechnical interpretation ; Design and analysis of the temporary support of the tunnels, shafts, and cut-and-cover ; Analysis of the seismic behaviour of the tunnels ; Study of wave propagation effects due to weapon explosion. (The Geotechnical Engineer of the winning consortium.) Final design for construction.

Effect Metro Tunnel on Ministry of Economy Building Seismic Response, Greece (1999)
Study of the effect of the presence of the TBM tunnel (stalled after having crossed the building) on the stability and seismic safety of the building. The study included back analyses of the daily settlements observed during the TBM passage, and dynamic soil-foundation interactions analyses. (The predictions of the analyses were validated during the 7-9-99 Parnitha Earthquake.)

Athens METRO, Greece (1993-1998)
Evaluation of soil profiles and design parameters for the retaining systems of eight cut-and-cover stations, and all the substations and shafts; back-analyses of the response of anchored temporary walls ; analyses of tunnel and retaining structures; contribution to analysis of one NATM subway station; seismic analysis of several subway stations ; seismic analysis of the tunnel.

Athens METRO, Greece (1997)
Study of the effect that the delayed passage of the TBM will have on the already constructed (2.50 m-away about 6 meters in diameter) galleries connecting the main tunnel with the emergency-ventilation Shaft (Ag. Constantinos, Santaroza, Amerikis, and Amalias substations). Effect of TBM passage on piles of the Fix Station.

Thessaloniki METRO, Greece (1999-2000)
Independent Engineer for checking the geotechnical design and the seismic response studies for the tunnel and cut-and-cover stations.

Maliakos Straits Immersed Highway Tunnel, Greece (1994, 1997)
Design and coordination of geotechnical, geophysical, geological and geotectonic investigation. Analysis of potential differential ground motions due a major earthquake rupture and
heterogeneous soil conditions; seismic soil response analysis ; effect of fault rupture on overlying soil; definition / determination of design deformation for the joints.

Extension of Music Hall (Epektasis Megarou Mousikis), Greece 1997-1998
Participants in the design-and-construct competition of the Hall, responsible for the analysis of one of the largest excavation and retaining projects in Greece : a 40 m deep and over-600 m long (in perimeter) urban excavation, for the fully-underground complex of opera and symphony halls, garage, and related facilities, in the center of Athens.

LNG Storage Tanks, Revithousa, Greece (1996)
Consultant to Owner, and analyst on: the stability of the 26-m-deep excavation in weathered/jointed rock; design of innovative retaining system; evaluation of the seismic performance of the base isolation system; analysis and design of alternative seismic isolation systems; seismology of Revithousa, with emphasis on long-period accelerations; study of effects of potential faults existing under the foundation

Aktion - Preveza Straits Immersed Tunnel, Greece (1994-95)
Evaluation of alternative ground improvement techniques of the foundation soils to withstand seismic liquefaction (on behalf of the Ministry of Public Works).

Rion-Antirrion Underwater Embankment and Tunnel, Greece (1993)
Conceptual design of an immersed tunnel, considered for crossing the 2000 m long and about 60 m deep straits; effects of a 0.50 g seismic ground acceleration, and of a 2-m fault dislocation directly underneath.

Thessaloniki Sewage Pipeline, (ΟΑΘ), Greece (1987)
Geotechnical design of retaining systems for a 13 km long sewage pipeline (from the harbor to Kalochori) in a variety of soils including loose saturated silts ; full-scale tests, experimental evaluation analysis, design.

(c) BRIDGE – FOUNDATIONS

Quensboro Bridge N.Y. (USA) (2010-11)

Seismic analysis of the foundation of the 4 main pylons and the numerous approach pier.

Bridge ΣΓ26, Lianiokladi–Domokos High-speed Rail–line (2006-2007)
Seismic hazard assessment and determination of seismic analysis ground motions. 3D Fault Rupture–Soil–Pier Interaction. Design of the 400 m vidauct bridge structural system, in cooperation with the Structural Engineer, to withstand possible tectonic dislocation of 30 cm.

Stretto di Messina Bridge, Italy (2006 -today)
Member of the Independent Engineer's team, responsible for checking the additional (final) geotechnical exploration program, the selection of seismic ground motions, the analysis of the seismic response of the two massive composite caisson foundations of the piers, the analysis of the seismic behaviour of the huge anchor blocks, and the assessment of soil-foundation-pylon interaction. Unfortunately, the project was stopped after the economic crisis.

Paradeisia Bridge, Corinth–Kalamata Highway, Greece (2005-06)

Dynamic spectral and time-domain analysis of the 475 m bridge. Foundation design for Piers and Abutments; dynamic analysis of the piled foundation; kinematic and inertial interaction; computation of the design sectional forces of the piles.

Diavolorema Bridge, Egnatia Highway, Greece (2003-04)
Design and analysis of the piled foundation of a highway bridge on a deep soft soil deposit; liquefaction potential analysis and protective measures design against lateral spreading.

Nestos Bridge, Chrisoupolis Interchange, Egnatia Highway, Greece (2002-03)
Design and analysis of the piled foundation of 19 piers of a major highway bridge on a deep soft soil deposit; liquefaction potential analysis and protective measures design against lateral spreading.

Aegaleo Overpasss Bridge, Attiki Odos Highway, Greece (2000)
Stage A : design and analysis of the foundation excavations considering the 3D geometry of the work.
Stage B : Non-linear pseudostatic analysis of caisson foundations considering its 3D geometry

Troumbeta Bridge, Egnatia Highway, Greece (1999)
Non-linear pseudostatic analysis of caisson founded on steep slope, considering its 3D geometry.

Williamsburg Bridge, New York, USA (1998)
Seismic analysis of pier foundation for the seismic re-evaluation program of this major historic bridge. Computation of dynamic impedances of 27 pier foundations which included the caisson and pile foundations of two main towers and two anchors (one supported on 3000 wooden piles)

Votonosi Bridge, Egnatia Highway, Greece (1998)
First phase design / analysis of caisson foundations carrying large overturning moments.(Central span 200 m, largest in Greece in prestressed concrete, pier height approximately 70 m.)

Madison-Avenue Bridge, New York, USA (1996)
Geotechnical and Seismic re-analysis of this historic bridge (spans of over 100 meters) --- part of a major renovation / retrofit study program.

Tacony-Palmyra Bridge, Philadelphia, USA (1995)
Geotechnical investigation; seismological and ground motions study; analysis of soil
response and of liquefaction; analysis of soil-structure interaction for the 30 piers of this historic bridge.

Tagus River Bridge, Lisbon, PORTUGAL (1994)
Seismological and ground motions study; evaluation of geotechnical investigation; analysis of the seismic response and performance evaluation of the seven foundations of this 2100 m suspension bridge undergoing and upgrading for carrying a railway deck. Of particular interest: the response of the colossal caisson (90 m high, 24 by 41 m in plan) of one of the two major piers, founded through 54 m of soft soil deposits

Corinth Canal (Isthmos) Bridges, Greece (1989-1990)
Seismic hazard analysis, contribution to the conceptual foundation and bridge design of alternative solution schemes, and dynamic response analysis

Corinth Canal (Isthmos) Bridges, Greece (1992-93)
Design / Analysis of pier foundation against static and seismic loads; seismic analysis of steel and prestressed concrete non-isolated bridges for international design-construct competition.

Rion-Antirrion Bridge, Greece (1988)
Seismic safety analysis [including soil-structure interaction and liquefaction studies] of the 100-m-diameter 70-m-high offshore piers of a proposed over 2000 m-long suspension bridge; seismic analysis of the anchoring bodies. For the international design-construct competition.

Rion-Antirrion Bridge, Greece (1994-1995, and 1996)
Evaluation and check of design solution proposed by GEFYRA group of the 90-m-diameter piers of the 2200 m-long cable--stayed bridge, as the geotechnical expert of the Owner's Checking Team.

Evripos Channel Cable-Stayed bridge, Greece (1987)
Seismic safety evaluation of pile foundations.

Parakampsi Halkidas Bridge, Greece (1987-1989)
Analysis of soil--pile structure interaction; investigation of alternative structural schemes; Soil response analyses; seismic design of abutment walls.

Aliakmonas Railroad Bridge, Greece (1989)
Seismic safety analysis of the piled foundations of a 800 m bridge.

Ormos Megaron Highway and Railway Bridge, Greece (1991)
Seismic-analysis of soil-pile-column interaction and design of the piled foundation; design of improvement measures of liquefiable ground; analysis of seismic response of embankment on steep terrain.

Bridging the Maliakos Straits, Greece (1993)
Conceptual design and seismic response analysis of a typical pier/foundation of two proposed 2600 m span suspension bridges.

(d) DAMS and EMBANKMENTS
Seismic Analysis / Design

Asteriou Earth Dam, Achaia, Greece (2007-08)
Seismic safety evaluation of the proposed design modifications earth fill dam, in 2 and 3 dimensions.

Stratoni Tailings Dams, TVX, Chalkidiki, Greece (1999-present)
Geotechnical assessment of the long-term and short-term stability of four tailings embankments / dams against flooding and earthquake loading. Conceptual design of amelioration measures. Coordination or supervision of "Dam-Break" analyses and the final design of measures to enhance the safety.

Sykia Dam, Greece (1998-present)
Seismic Analysis in 2 and 3 dimensions of the major 160 m dam to be constructed in Acheloos River. Member of the 6-member Board of Advisors.

Aposelemi Dam (Crete) 2001
Dynamic 2D finite-element analysis of the Dam. Dynamic analysis of the water intake tower including hydrodynamic interaction, soil–structure dynamic interaction, incorporating sliding and uplifting of the tower.

Faneromenis Dam, Island of Naxos, Greece (1996)
Seismic analysis and design of a 52 m-high concrete-face rockfill dam, with particular emphasis on the performance of the concrete slab.

Evinos Dam, Greece (1992-1994)
Seismic analysis of the 115m tall earthfill dam and its associated critical structures; seismic analysis of alternative RCC gravity dam ; stress and deformation analysis of spillway exit on deformable ground.

SxoinasDam, Karpathos Greece (1994)

Seismic analysis of the earthfill dam and its associated critical structures; seismic analysis of alternative RCC gravity dam ; stress and deformation analysis of spillway exit on deformable ground.

Platanovrisi RCC Dam, Greece (1993)
Seismic analysis of the 95m tall Roller-Compacted-Concrete Dam, with due consideration of hydrodynamic and dam-foundation interaction effects; proposed alternative design schemes.

Mornos Dam, Greece (1986)
Member of Board of Consultants to assess consequences of excessive seepage into the Pyrnos grouting gallery and propose defensive.

Messochora Concrete Face Rockfill Dam, Greece (1989)
Seismic hazard analysis, dynamic response analysis, and seismic performance analysis of the 135 m high dam.

Smokovo Rockfill Dam, Greece (1985)
Dynamic Stability Analysis of two alternative schemes: a 100 m-high concrete-faced rockfill and a l04 m-high rockfill and clayey core.

Pigi CFR Dam, Greece
Seismic safety evaluation of the 36m high Concrete-Faced-Rockfill Dam.

Suorva Dam, Sweden (1988)
Potential effects of explosions during proposed construction of a grouting gallery 15 m below the dam.

Red Mud Depository Interalumina Plant, Guayana, Venezuela (1982)
Geotechnical investigation of extensive dike failures next to the Orinoco River; redesign. Design of seepage control system to make a 10m-high rockfill embankment and its foundation impermeable.

.

(e) HARBOR QUAWALLS

A.D.K., New Port of Igoumenitsa (2005)
Two-dimensional finite element time domain dynamic analysis of quay walls and wharfs of the New Port of Igoumenitsa (Northern Greece).

Π.Α.Θ.Ε. Highway, Parametric Investigation of the non-linearity of the structural system of Cut-and-Cover Tunnels at the Kamena Vourla Bypass (2005)
Fault Rupture–Soil–Tunnel Interaction Analysis of Cut-and-Cover tunnels at the Kamena Vourla Bypass, taking into account the non-linearity of the tunnel structural system. Parametric investigation and computation of section forces due to fault-induced dislocation. Parametric non-linear dynamic time-history analysis and computation of dynamic section forces.

Loutraki Marina, Greece (2000-01)
Design and analysis under seismic conditions of the quaywalls and breakwater of the planned marina in very soft and deep soil deposit.

Patras New Harbor (Phase B), Greece (2000)
Analysis under both static and seismic condition of the quaywalls and breakwater in very soft soils.

Macedonia Airport (Extension), Greece (1999)
Seismic ground motions study ; geotechnical valuation ; seismic analyses of the embankment and subsoil of the airport ; analysis of potential seismic liquefaction of the loose sandy subsoil layers.

Patras New Harbor (Phase A), Greece (1998-1999)
Analysis under both static and seismic condition of the quaywalls and breakwater in very soft soils.

Maya Futo, Kobe, Japan (1997-98)
Analysis of the cause of failure of one of the busiest wharves in the 1995 Kobe Earthquake. The wharf cross section consisted of a combination of quaywall and a platform on piles.

Thessaloniki Harbor, Greece (1998)
Dynamic Analysis of the quaywall (extension to the existing harbor).

Aegion New Harbor, Greece (1996)
Design and analysis under both static and seismic conditions of the major quaywalls of the planned harbor on very soft and deep soil deposit.

Mykonos New Harbor, Greece (1996)
Analysis of potential seismic liquefaction of the loose sandy subsoil.

Igoumenitsa Harbor, Greece (1995)
Dynamic Analysis and Seismic Design.

Limassol Port Extension, Cyprus (1994)
Consulting services to the Contractor for the design / construction of the piled quaywall.

(f) PIPELINES

Thessaloniki (ΟΑΘ) Sewage Pipeline, Greece (1987)
Geotechnical design of retaining systems for a 13 km long sewage pipeline (from the harbor to Kalochori) in a variety of soils, including loose silty soils ; full-scale tests, experimental evaluation, analysis, design

Gas Pipeline Revithousa-Triada Straits, Greece (1995)
Study of the anticipated seismic performance of the soil deposit and of the pipeline protection system, for a 600 m submarine crossing of a major natural-gas pipeline.

(g) PARTICIPATION in CODE WRITTING

Eurocode 8 / Chapter 5, Brussels, (1988-1993)
Member of the Drafting Panel for drafting the chapter on soil-structure interaction and foundations for the Commission of the European Communities seismic code-EC8.

New Greek Aseismic Code (1990 – present)
Member of the Drafting and Amendment Panels.

NEHRP Recommended Provisions for Seismic Regulations, FEMA, USA (1994)
Member of the drafting panel on foundations.