

CURRICULUM VITAE

PANOS DAKOULAS

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Professor

Director of Soil Mechanics Laboratory

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December 2020

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Visiting Professor, ETH Zürich

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PERSONAL

Date of Birth: 1957
Citizenship: Greek, USA
Family Status: Married, two children

EDUCATION

1982-1985: Ph.D. in Civil Engineering (*Geotechnical Earthquake Engineering*)
Rensselaer Polytechnic Institute, Troy, New York.
Thesis: "*Contributions to Seismic Analysis of Earth Dams and Embankments.*"

1980-1982: M. Sc. in Civil Engineering (*Geotechnical Engineering*)
Rensselaer Polytechnic Institute, Troy, New York.
Thesis: "*Effect of Fabric on the Deformation Mechanism of Granular Soil.*"

1975-1980: Diploma in Civil Engineering (5-year course)
National Technical University of Athens, Athens, Greece
Thesis: "*Design of Highway Intersections.*"

ACADEMIC EXPERIENCE

2013-Present: Professor, Civil Engineering Dept., University of Thessaly, Greece.

2006-2013: Associate Professor, Civil Engineering Dept., University of Thessaly, Greece.

2000-2006: Assistant Professor, Civil Engineering Dept., University of Thessaly, Greece.

1993-2000: Associate Professor, Civil Engineering Dept., Rice University, Houston, Texas, USA.

1987-1993: Assistant Professor, Civil Engineering Department, Rice University, Houston, Texas. Developed a new Soil Mechanics research facility at Rice University for advanced monotonic and cyclic soil testing, using computer-automated state-of-the-art equipment.

1985-1987: Research Associate, Civil Engineering Department, Rensselaer Polytechnic Institute, Troy, New York. In charge of a major project for the seismic response and liquefaction potential evaluation of a 50 km long dyke system protecting the oil wells and three towns along the coast of Maracaibo Lake, Venezuela.

1986-1987: In charge of the Earthquake Engineering and Cyclic Loading Soils Laboratory at RPI. (This laboratory is the core geotechnical facility for the National Center for Earthquake Engineering Research). Participated in several experimental projects related to monotonic and cyclic behavior of soil, with particular emphasis on the liquefaction of sands, in collaboration with Prof. R. Dobry.

1983-1985: Research Assistant, Civil Engineering Dept., RPI, Troy, NY. (under supervision of Prof. G. Gazetas).

1981-1983: Teaching Assistant, Civil Engineering Dept., RPI, Troy, NY.

POSITIONS IN THE DEPARTMENT OF CIVIL ENGINEERING

2020-present: Vice-Chair of the Department of Civil Engineering

2018-present: Visiting Professor, Department of Civil Engineering, ETH Zurich

2016-2017: Director of the Graduate Studies Program “Analysis and Design of Energy Infrastructure Systems”

2012-2016: Director of the Graduate Studies Program “Analysis and Design of Civil Engineering Systems”

2008-2010: Vice-Chair of the Department of Civil Engineering

2007-present: Director of the Geotechnical Engineering laboratory

2004-2010: Deputy Director of the Graduate Studies Program “Applied Mechanics and Systems Modelling and Simulation”

2016-present: Chair of the Accreditation Committee

2016-present: Chair of the Doctoral Program Committee

AREA OF SPECIALIZATION

Geotechnical Earthquake Engineering, Soil Dynamics, seismic analysis and design of dams (earth, rockfill, concrete), seismic behavior of retaining walls and waterfront structures, experimental behavior of soils under monotonic and cyclic loading, liquefaction, constitutive modeling of soils under monotonic and cyclic loading, dynamic soil-structure interaction, seismic behavior of buried pipelines, computational geotechnical engineering.

HONORS

1999 Hsieh Award

This international award is awarded by the Institution of Civil Engineers (ICE), UK, for the best journal paper on the area of Structural and Soil Dynamics among all journal papers of ICE within a year. The article that received the award is entitled :*“Insight into Dynamic Earth and Water Pressures against Caisson Quay Walls”*, Geotechnique, ICE, 58(2), 95-111 (by P. Dakoulas & G. Gazetas).

1995 S. Prakash Research Award.

This is an international award that is given to a researcher under 40 years old, who has made throughout out his career substantial contributions in the field of Geotechnical Earthquake Engineering and Soil Dynamics. The winner is selected by a international committee of experts in this field.

ASCE Student Chapter Award, March 1999

Department of Civil Engineering, Rice University, Houston, Texas

Thomas Archibald Bedford Prize.

Rensselaer Polytechnic Institute, for “high scholastic ability and substantial contribution in his field”, May 1983.

Scholarship Recipient.

National Technical University of Athens, Greece, 1975-1980.

RESEARCH TOPICS AND GRANTS

Experimental Investigation and Constitutive Modeling of Saturated Sands Subjected to Monotonic and Cyclic Loading. (PI).
Sponsor: *National Science Foundation*, Funds: \$ 58,761

Experimental Investigation of Marine Clay and Modeling of Offshore (PI). Foundations (Phase I).
Sponsor: *Texas Advanced Technology Program*, Funds: \$ 58,919

Experimental Investigation of Marine Clay and Modeling of Offshore (PI). Foundations (Phase II).

Sponsor: *Texas Advanced Technology Program*, Funds: \$ 80,000

Experimental Investigation and Constitutive Modeling of Saturated Sands (PI).
Subjected to Monotonic and Cyclic Loading (Extension).

Sponsor: *National Science Foundation*, Funds: \$ 6,000

Fellowship for Graduate Student: Response of earth, rockfill, concrete-faced-rockfill dams to P, S and Rayleigh waves using a Mixed Boundary Element - Finite Element Formulation. (PI).

Sponsor: *U.S. Committee on Large Dams*, Funds \$10,000.

Prediction of the Seismic Response of Ririe Dam Using Simplified Nonlinear Shear Beam Models. (PI).

Sponsor: *Waterways Experiment Station, Corps of Engineers, U.S. Army*, Funds: \$ 6,000.

Modeling the Surface and Interior Structure of Cometary Nuclei Using a Multi-disciplinary Approach. (Co-PI with O'Dell, R. and Pharr, G.).

Sponsor: *National Aeronautics and Space Administration*, Funds \$ 62,123,

Deformation-Based Seismic Analysis And Design Of Waterfront Retaining Structures, (PI).

Sponsor: *National Science Foundation*, Funds: \$ 122,108

Deformation-Based Seismic Analysis And Design Of Waterfront Retaining Structures, Research Collaboration Visit to Japan. (PI).

Sponsor: *National Science Foundation*, Funds: \$ 7,157

Seismic Analysis and Design of Geotechnical Structures on Liquefiable Soils, (PI).

Sponsor: *Organization for Seismic Design and Protection*, Greece, Funds: €30000

Seismic Analysis and Design of Flexible Retaining Walls in Liquefiable Soils,

Sponsor: *General Secretariat of Science and Technology, Ministry of Development, Greece*, Funds: € 28000. (PI: G. Gazetas, NTUA).

Concrete slab performance during reservoir impoundment of Messochora CFR Dam, (PI). Sponsor: *Public Power Corporation, Greece*, Funds: € 12000

Advanced Simulation of the Seismic Behavior of Tavropos Arch Dam: nonlinear 3D Dam-Canyon-Water interaction and thermomechanical effects, (PI). Sponsor: *Public Power Corporation, Greece*, Funds: € 20000

Numerical Simulation of the Construction and Loading of Rockfill Dams, Heracleitos II program for doctoral research of E Stavrotheodorou, Funds: € 45000

GIPIPE: Safety of Steel Buried Pipelines underground induced deformations.
PI: S. A. Karamanos, University and Industry Consortium
Funds: € 1640674

Evaluation of the irrigation system of the Islands of Corfu and Paxi:
Stage of Construction, Co-PI with A. Loukas (PI), Funds: € 15000

Mitigation of seismic liquefaction in the foundation soil of existing structures via pore fluid enrichment with environmentally safe nano-particles, Ministry of Education, Program Thalis, Funds: € 600.000. (PI: A. Papadimitriou; Univ. of Thessaly team leader: P. Dakoulas).

Contemporary Evaluation Methodology of Seismic Vulnerability and Upgrade of Port Facilities, Ministry of Education, Program Thalis, Funds: € 600.000, (PI: G. Gazetas, Univ. of Thessaly team leader: P. Dakoulas).

Numerical and experimental modelling of global buckling of underground pipelines due to high pressure and temperature, Ministry of Education, Funds: € 40,600, (PI: P. Dakoulas).

COURSES TAUGHT

Rice University

CIVI 470: Basic Soil Mechanics (lectures and laboratory).

NSCI 101: Natural Science.

CIVI 570: Foundation Engineering (Graduate).

CIVI 571: Soil Dynamics (Graduate).

University of Thessaly

Soil Mechanics I

Soil Mechanics II

Soil Dynamics I

Soil Dynamics II

Dams and Embankments (Geotechnical Structures)

Advanced Soil Mechanics (Graduate)

Hydroelectric Dams (Graduate)

MEMBERSHIP

American Society of Civil Engineers

International Society of Soil Mechanics and Foundation Engineering

Earthquake Engineering Research Institute

Registered Professional Engineer in the State of Texas

Registered Professional Engineer, Greece and the European Union.

International Committee on Large Dams

Greek Committee on Large Dams
Technical Chamber of Greece
Sigma Xi, The Scientific Research Society

NATIONAL COMMITTEES AND PROFESSIONAL SERVICE IN USA & GREECE

Important activities

- 1996-2000: **Chairman of the National Earthquake Engineering and Soil Dynamics Committee, of the American Society of Civil Engineers, USA.** The committee consists of 30 members.
- Member of the Organizing Committee of a Specialty Conference of ASCE, on Geotechnical Earthquake Engineering and Soil Dynamics in Seattle, Washington, (August 1998). The committee consists of 6 members. This is an important international conference that is organized every 10 years.
- 1993-1998: **Editorial Board Member**, Journal of Geotechnical and Geoenvironmental Engineering of the American Society of Civil Engineers.
- 1992-1996: **Chairman of the National Earthquake Engineering and Soil Dynamics Committee of the American Society of Civil Engineers, USA.** The committee consists of 30 members.
- Reviewer for the following scientific Journals:

Journal of Geotechnical and Geoenvironmental Engineering

Geotechnique

Journal of Engineering Mechanics

Journal of Applied Mathematics

International Journal of Earthquake Engineering and Structural Dynamics

Journal of Soil Dynamics and Earthquake Engineering

Geotechnical Testing Journal

Journal of Infrastructure Systems

Bulletin of the Seismological Society of America

International Journal of Numerical and Analytical Methods in Geomechanics

EERI Earthquake Spectra

Computers and Geotechnics

International Journal of Numerical Methods in Geomechanics

Engineering and Computational Mechanics

Journal of Pipeline Systems – Engineering and Practice

Bulletin of European Earthquake Engineering

Technika Chronika, Greece

Journal of Environmental and Civil Engineering

Earthquake Engineering and Engineering Vibration

Structure and Infrastructure Engineering

Journal of Hydrodynamics

Structure and Infrastructure Engineering

Journal of Pipeline Systems and Engineering practice, ASCE

- National Science Foundation Review Panel member for the review of research proposals in the *Geomechanics and Geotechnical Systems Program*, Washington, D.C., USA, 2002.
- National Science Foundation Review Panel member for the review of research proposals in the *Earthquake Hazard Mitigation Program*, Washington, D.C., USA, 2000.
- National Science Foundation Review Panel member for the review of research proposals in the *Earthquake Hazard Mitigation Program*, Washington, D.C., USA, 1997.
- National Science Foundation Review Panel member for the review of research proposals in the Division of *Structures, Geomechanics, and Building Systems*, Washington, D.C., USA, 1991.
- Reviewer for the Civil Engineering Research Foundation (CERF) of the American Society of Civil Engineers, USA, 1997.
- Member of the Committee ETC-12 (ISSMGE) for the assessment and application of Euricode-8.
- Member of the Scientific Committee of the 1st Greece-Japan Workshop on the Seismic Design, Observation and Retrofit of Foundations, Athens, October 2005.
- Member of the Scientific Committee of the Fourth International Conference on Earthquake Geotechnical Engineering, Thessaloniki, Greece, June 2007.
- Member of the Scientific Committee of the 2nd Japan-Greece Workshop on the Seismic Design, Observation and Retrofit of Foundations, Tokyo, April 2007.
- Member of the Organizing Committee and the Scientific Committee of the 1st Greek Conference on Large Dams, Larissa, November, 2008.

- Member of the Scientific Committee of the 3rd Greek Conference on Earthquake Engineering and Technical Seismology, Athens, November 2008.
- Member of the Scientific Committee of the 3rd Greece-Japan Workshop on the Seismic Design, Observation and Retrofit of Foundations, Santorini, Oct 2009.
- Member of the Organizing Committee and the Scientific Committee of the 6th Greek Conference on Geotechnical and Geo-Environmental Engineering, Volos, October, 2010.
- Member of the Scientific Committee of the Fifth International Conference on Earthquake Geotechnical Engineering, Santiago, Chile, January 2011.
- Member of the Scientific Committee of the 4th Japan- Greece Workshop on the Seismic Design, Observation and Retrofit of Foundations, Kobe, Japan, 2001.
- Member of the Public Works Council of the Prefecture of Thessaly
- Member of the committee for the Verification and Reliability of Computers Codes for Static and Dynamic Analysis, Ministry of Public Works, Greece
- Member of the Committee on Computational Aspects of Analysis and Design of Dams, International Committee on Large Dams (ICOLD)
- Member of the Scientific Committee of the 11th ICOLD Numerical Benchmark Workshop, Valencia, Spain 2011.
- Member of the Scientific Committee of the 12th ICOLD Numerical Benchmark Workshop, Gratz, Austria 2013.
- Member of the Scientific Committee of the 2nd Greek Conference on Dams, Athens, 2013
- Member of the Scientific Committee of the 7th Greek Conference on Geomechanics, Athens, 2014
- Member of the Scientific Committee of the 13th ICOLD Numerical Benchmark Workshop, Lausanne, Switzerland 2015.
- Member of the Scientific Committee of the 1st International Conference on Natural Hazards & Infrastructure, 28-30 June, 2016, Chania, Greece
- Member of the Scientific Committee of the 14th ICOLD Numerical Benchmark Workshop, Stockholm, Sweden 2017.

- Member of the Scientific Committee of the 3rd Greek Conference on Dams, Athens, 2017
- Member of the Scientific Committee of the 16th European Conference on Earthquake Engineering, Thessaloniki, 18-21 June 2018

PUBLICATIONS

Book Editor:

1. “*Ground Failures under Seismic Conditions*”, (1994), Prakash, S. and Dakoulas, P., American Society of Civil Engineers, New York, pp 260.
2. “*Geotechnical Earthquake Engineering and Soil Dynamics III*”, (1998), Dakoulas, P., Yegian, M. and Holtz, R., American Society of Civil Engineers, New York, pp. 1582.

Chapters in Books:

1. Bouckovalas, G. and Dakoulas, P., “*Liquefaction performance of shallow foundations in presence of a soil crust*”, Invited Theme Lecture, 4th International Conference on Earthquake Geotechnical Engineering, Thessaloniki, June 2007, Greece, 245-276.
2. Dakoulas, P. (2013), “*Seismic behavior of concrete face rockfill dams*”, Twentieth Anniversary Volume, Department of Civil Engineering, University of Thessaly, Volos, Greece.
3. Karamanos SA, Gresnicht AM, Dijkstra G, Vazouras, P. Dakoulas P et al. (2020) *Geohazards and Pipelines*, State-of-the-art design using experimental, numerical and analytical methodologies, Springer (in press).

Journal Papers:

1. Dakoulas, P. and Gazetas, G. (1985), “*A Class of Inhomogeneous Shear Beam Models for Seismic Analysis of Earth Dams and Embankments*”, Journal of Soil Dynamics and Earthquake Engineering, Vol. 4, pp. 166-182.
2. Dakoulas, P. and Gazetas, G. (1986), “*Seismic Shear Vibration of Embankment Dams in Semi-Cylindrical Valleys*”, Journal of Earthquake Engineering and Structural Dynamics, Vol. 14, No. 1, pp. 19-40.
3. Dakoulas, P. and Gazetas, G. (1986), “*Seismic Shear Strains and Seismic Coefficients in Earth Dams and Embankments*”, Journal of Soil Dynamics and Earthquake Engineering, Vol. 5, No. 2, pp. 75-83.

4. Dakoulas, P. and Gazetas, G. (1987), "*Vibration Characteristics of Dams in Narrow Canyons*", Journal of Geotechnical Engineering, ASCE, Vol. 113, No 8, pp. 899-904.
5. Dakoulas, P. (1990), "*Nonlinear Response of Dams Founded on Alluvial Deposits in Narrow Canyons*", Journal of Soil Dynamics and Earthquake Engineering, Vol. 9, No. 4, pp. 301-312.
6. Gazetas, G., Dakoulas, P. and Papageorgiou, A. (1990), "*Local-Soil and Source-Mechanism Effects in the 1986 Kalamata (Greece) Earthquake*", Journal of Earthquake Engineering and Structural Dynamics, Vol. 19, pp. 431-456.
7. Gazetas, G. and Dakoulas, P. (1992), "*Seismic Analysis and Design of Rockfill Dams: State of the Art*", Journal of Soil Dynamics and Earthquake Engineering, Vol. 11, No. 1, pp. 27-61.
8. Dakoulas, P. and Hashmi, H. (1992), "*Wave Passage Effects on the Response of Earth Dams*", Journal of Soils and Foundations, Vol. 32, No. 2, pp. 97-110.
9. Dakoulas, P. and Sun, Y. (1992), "*Fine Ottawa Sand: Experimental Behavior And Theoretical Predictions*", Journal of Geotechnical Engineering, ASCE, Vol. 118, No. 12, pp. 1096-123.
10. Dakoulas, P. (1993), "*Response of Earth Dams in Semi-Cylindrical Valleys Subjected to Oblique SH Waves*", Journal of Engineering Mechanics, ASCE, Vol. 119, No. 1, pp. 74-90.
11. Yu, S. and Dakoulas, P. (1993), "*General Stress-Dependent Elastic Moduli for Cross-Anisotropic Soils*", Journal of Geotechnical Engineering, ASCE, Vol. 119, No. 10, 1568-1586.
12. Dakoulas, P. (1993), "*Earth Dam - Canyon Interaction Effects For Obliquely Incident SH Waves*", Journal of Geotechnical Engineering, ASCE, Vol. 119, No. 11, 1696-1716.
13. Dakoulas, P., and C. Hsu (1993), "*Lateral Response of Dams in Semi-Elliptical Rigid Canyons*", Journal of Soil Dynamics and Earthquake Engineering, Vol. 12, 8, pp. 497-507.
14. Dakoulas, P. and Yu, S. (1995), "*Stress-Dependency of Elastic Moduli for Cross-Anisotropic Soils*", Geotechnique, Vol. 45, 2, pp. 325-332.
15. Dakoulas, P., and Hsu (1995), "*Response of Earth Dams in Semi-Elliptical Canyons to Oblique SH Waves*", Journal of Engineering Mechanics, ASCE, Vol. 120, 3, pp. 379-391.
16. Abouseeda, H. and Dakoulas, P. (1996), "*Response of Earth Dams Subjected to P and SV Waves Using a Coupled Finite Element - Boundary Element Formulation*",

Journal of Earthq. Engineering and Struct. Dynamics, Vol. 25, 11, pp 1177-1194.

17. Dakoulas, P. and Abouseeda, H. (1997), "*Response of Earth Dams to Rayleigh Waves Using a Coupled Finite Element - Boundary Element Method*", Journal of Engineering Mechanics, ASCE, Vol. 123, No. 12, 1311-1320.
18. Abouseeda, H. and Dakoulas, P. (1998), "*Nonlinear Earth Dam - Foundation Interaction Using a BE-FE Method*", Journal of Earthquake Engineering and Structural Dynamics, Vol. 27(12), 917-936.
19. Dakoulas, P. and Gazetas, G. (2005), "*Seismic Effective Stress Analysis of Caisson Quay Walls: Application to Kobe*", Journal of Soils and Foundations, 45(4), 133-147.
20. Dakoulas, P. and Gazetas, G. (2008), "*Insight into Dynamic Earth and Water Pressures against Caisson Quay Walls*", Geotechnique, ICE, 58(2), 95-111.
21. Dakoulas, P., Thanopoulos, Y., and Anastassopoulos, K. (2008), "*Nonlinear 3D simulation of CFR dam construction and reservoir filling*", International Journal of Hydropower and Dams, Issue 2, 95-101.
22. Vazouras, P., Karamanos, S. and Dakoulas, P., (2010), "*Finite element analysis of buried steel pipelines under strike-slip fault displacements*", Journal of Soil Dynamics and Earthquake Engineering, 30, 1361-1376.
23. Dakoulas, P. (2011), "*Nonlinear seismic response of tall concrete faced rockfill dams in narrow canyons*" Journal of Soil Dynamics and Earthquake Engineering, 34, 11-24.
24. Dakoulas, P. (2011), "*Longitudinal vibrations of tall concrete faced rockfill dams in narrow canyons*", Journal of Soil Dynamics and Earthquake Engineering, 41, 44-58.
25. Vazouras, P., Karamanos, S. A., and Dakoulas, P., (2012) "*Mechanical Behavior of Buried Steel Pipes Crossing Active Strike-Slip Faults*", Journal of Soil Dynamics and Earthquake Engineering, 41, 164-180.
26. Vazouras, P., Dakoulas, P., and Karamanos, S. A. (2015) "*Soil-Structure Interaction Effects of Steel Pipelines Crossing Active Seismic Faults*", Journal of Soil Dynamics and Earthquake Engineering, 72, 45-65.
27. Sarvanis, G., Karamanos, S.A., Vazouras, P., Mecozzi E., Lucci A. and Dakoulas P., (2017) "*Permanent Ground-Induced Actions in Buried Pipelines: Numerical Modeling and Experimental Verification*", Journal of Earthquake Engineering and Structural Dynamics 47 (4),966-987.

28. Dakoulas, P, Vazouras, P, Kallioglou, P, Gazetas, G (2018), "Effective stress seismic analysis of gravity multi-block quay wall", *Journal of Soil Dynamics and Earthquake Engineering*, 118, 378-393.
29. Alamanis, A, Dakoulas P (2019), Simulation of random fields of soil properties by the local average subdivision method and engineering applications, *Energy systems*, Springer, <https://doi.org/10.1007/s12667-019-00362-y>.
30. Alamanis, N., Dakoulas P., (2019), Simulation of random fields of soil properties by the local average subdivision method and engineering applications, *International Journal of Energy Systems*, Springer, <https://doi.org/10.1007/s12667-019-00362-y>.
31. Vazouras, P, Tsatsis, A, Dakoulas, P (2020), “Thermal upheaval buckling of buried pipelines: experimental behavior and numerical modelling”, *Journal of Pipeline Systems Engineering and Practice*, ASCE, 2021, 12(1): 04020057, DOI: [10.1061/\(ASCE\)PS.1949-1204.0000507](https://doi.org/10.1061/(ASCE)PS.1949-1204.0000507).
32. Dakoulas, P., Stavrotheodorou, E. (2020), “*Analysis of concrete faced rockfill dams using Lade’s model and gradient plasticity*” (under revision).
33. Stavrotheodorou, E. and Dakoulas P. (2020), “Effect of height and rockfill stiffness on the performance of concrete face rockfill dams” (under revision).

Conference papers:

1. Dobry, R., Mohamad, R., Dakoulas, P., and Gazetas, G. (1984), “*Liquefaction Evaluation of Earth Dams - A New Approach*”, Proceedings of the 8th World Conference on Earthquake Engineering, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, Vol. 3, pp. 333-348.
2. Mohamad, R., Dakoulas, P., Gazetas, G. and Dobry R. (1985), “*Liquefaction Flow Failure Evaluation of Earth Dams*”, Proceedings of the XI International Conference Soil Mechanics and Foundation Engineering, San Francisco, pp. 1865-1868.
3. Dakoulas, P. and Gazetas, G. (1985), “*Nonlinear Seismic Response of Embankment Dams*”, Proceedings of the 2nd International Conference on Soil Dynamics and Earthquake Engineering, June/July, Springer-Verlag, Vol. 5, pp. 29-44.
4. Gazetas, G., Dakoulas, P. and Dennehy, K. (1990), “*Empirical Seismic Method for Waterfront Anchored Sheetpile Walls*”, Proceedings of the Conference on Design and Performance of Earth Retaining Structures, ASCE, Ithaca N.Y., June, pp. 232-250. (Refereed Publication).
5. Gazetas, G. and Dakoulas, P. (1991), “State of the Art: Aspects of Seismic Analysis and Design of Rockfill Dams”, (Keynote Address) Second

International Conference on Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, Missouri, March, Vol. 2, pp. 1851-1888.

6. Dakoulas, P. and Sun, Y. (1991), "*Behavior of Fine Sand Under Cyclic Rotation of Principal Stresses Using the Hollow Cylinder Apparatus*", Proceedings of the Second International Conference on Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, Missouri, March 11-15, Vol. 1, pp. 535-542.
7. Dakoulas, P. and Hashmi, H. (1991), "*Response of Earth Dams in Canyons Subjected to Asynchronous Base Excitation*", Second International Conference on Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, Missouri, March 11-15, Vol. 2, pp. 1105-1112.
8. Gazetas, G. and Dakoulas, P. (1991), "*Seismic Design Chart for Anchored Bulkheads*", Proceedings of the Second International Conference on Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, Missouri, March 11-15, Vol. 1, pp. 667-673.
9. Dakoulas, P. (1991), "*Stability of Slopes and Earth Dams Under Earthquakes: Concluding Remarks*", Proceedings of the Second International Conference on Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, Missouri, March 11-15, Vol. 3, pp. 2157.
10. Gazetas, G. and Dakoulas, P. (1991), "*Seismic Design Chart for Anchored Bulkheads*", Proceedings of the 3rd Japan-U.S. Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures for Liquefaction, Seattle, Washington, pp. 332-352.
11. Sun, Y. and Dakoulas, P. (1991), "*Effects of Cyclic Rotation of Principal Stresses on the Response of Fine Sand*", Third East Asia-Pacific Conference on Structural Engineering and Construction, New Technologies and Developments, Shanghai, China, April 23-26.
12. Sun, Y. and Dakoulas, P. (1991), "*Pore Water Pressure Response of Fine Sand Under Cyclic Rotation of Principal Stresses*", Science, Engineering and Technology Conference, CPPT Symposium, Houston, Texas, April.
13. Abouseeda, H. and Dakoulas, P. (1995), "*Response of Earth Dams Subjected to Obliquely Incident P and SV Waves*", Third International Conference on Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, Missouri, April 2-7, 1995, Vol. 1, pp. 503-510.
14. Seco e Pinto, Dakoulas, P., L. Harder, H. Watanabe, and A. Chugh, (1995) "*Stability of Slopes and Earth Dams under Earthquakes*", Third International Conference on Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, Missouri, April 2-7, 1995, Vol. 3, pp. 323-332.

15. Yegian, M., Gazetas, G., Dakoulas, P., Makris, N., and Ghahraman, V. (1995) *"The Northridge Earthquake of 1994: Ground Motions and Damage"*, Third International Conference on Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, Missouri, April 2-7, 1995, Vol. 3, pp. 151-157.
16. Abouseeda and P. Dakoulas (1996), *"Nonlinear dynamic earth dam - foundation interaction"*, Proceedings of the Eleventh World Conf. on Earthq. Engineering, Acapulco, Mexico, 1996.
17. Dakoulas, P., and Eltaher, A.(1998), *"Nonlinear Dynamic Earth Dam - Foundation Interaction Using An Effective Stress Coupled Be-Fe Method"*, Proceedings of the Geotechnical Earthquake Engineering and Soil Dynamics, Seattle, Wa, Geo-Institute, American Society of Civil Engineers, New York, 866-877 (Refereed Publication).
18. Gazetas, G. and Dakoulas, P. (1998), *"Seismic Re-evaluation of the Tagus Bridge (Lisbon): Response of Main Caisson"*, Proceedings of the XI European Conference on Earthquake Engineering, Sept. 1998, Paris, France.
19. Dakoulas, P. (2001), *"Nonlinear Dynamic Earth Dam - Foundation Interaction Using An Effective Stress Analysis"*, 4th Conference of Geotechnical Engineering, Athens, May, 2001.
20. Dakoulas, P. (2003), *"Seismic Analysis of Gravity Quay Walls"*, Proceedings of Intern. Workshop on Prediction and Simulation in Geomechanics, 14-15 October 2003, Athens, Greece.
21. Dakoulas, P. and Gazetas, G. (2004), *"Effective Stress Analysis of Gravity Quay Walls"*, 11th International Conference on Soil Dynamics & Earthquake Engineering (SDEE/ICEGE), San Francisco, Jan. 2004.
22. Gazetas, G., Anastasopoulos, J. and Dakoulas, P (2005), *Failure of Harbor Quaywalls in the Lefkada 2003 Earthquake*, ICSMGE, Osaka, Japan.
23. Kalyvas, G and Dakoulas, P (2005), *Nonlinear dynamic soil-structure interaction*, 5th Greek Conference in Geotechnical Engineering, Xanthi, Vol. 2 , 215 - 222.
24. Dakoulas, P, Vazouras, P., and Kalyvas, G. (2005), *Nonlinear dynamic soil-structure interaction in soil containing a liquefiable layer*, 5th Greek Conference in Geotechnical Engineering, Xanthi, Vol. 2, 369 - 376.
25. Dakoulas, P. and Yu, S (2005), *Elasto-plastic constitutive model for anisotropic clay*, 5th Greek Conference in Geotechnical Engineering, Xanthi, Vol. 1 , 167-174.

26. Gazetas G, Dakoulas, P. and Anastasopoulos, J. (2005), Failure of the quay walls during the Lefkada 14-8-2003 Earthquake, 5th Greek Conference in Geotechnical Engineering, Xanthi, Vol. 2 , 159 – 166.
27. Dakoulas, P. and Gazetas G (2005), “Dynamic Earth and Water Pressures at the Foundation and Backfill of Caisson Quay Walls”, Proceedings of the 1st Greece-Japan Workshop on the Seismic Design, Observation and Retrofit of Foundations, Athens, October 2005, 165-183 (invited paper).
28. Dakoulas, P., Kalyvas, G and Vazouras P., (2007), Effect Of A Liquefiable Soil Layer On Soil-Structure Interaction And Building Damage, 4th International Conference on Earthquake Geotechnical Engineering, Thessaloniki, June 2007, Greece.
29. Dakoulas, P (2007), “Effect of excess pore water pressure buildup on building damage”, 2nd Japan-Greece Workshop on Seismic Design, Observation and Retrofit of Foundations, Tokyo, April 2007, 453-466.
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