

## CURRICULUM VITAE OF GEORGE DEODATIS

### Current Academic Position:

**Santiago and Robertina Calatrava Family Professor**, Department of Civil Engineering and Engineering Mechanics, Columbia University.

### Education:

**Ph.D.**, 1987, Civil Engineering, Columbia University.

**Master of Science**, 1984, Civil Engineering, Columbia University.

**Diploma**, 1982, Civil Engineering, National Technical University of Athens.

### Professional Experience:

**Santiago and Robertina Calatrava Family Professor**, September 2007 – present, Columbia University.

**Professor**, July 2002 – August 2007, Columbia University.

**Associate Professor (with tenure)**, January 2002 – June 2002, Columbia University.

**Director**, Program in Mechanics, Materials & Structures, July 1997 - June 1999, Princeton University.

**Associate Professor (with tenure)**, July 1997 - December 2001, Princeton University.

**Assistant Professor**, July 1991 - June 1997, Princeton University.

**Research Associate**, February 1988 - June 1991, Princeton University.

**Post-Doctoral Research Scientist**, June 1987 - January 1988, Columbia University.

### Honors and Awards for Research:

- American Society of Civil Engineers Walter Huber Civil Engineering Research Prize, 1998.
- International Association for Structural Safety and Reliability Junior Research Prize, 1997.
- National Science Foundation Young Investigator Award, 1992.
- NEC Preceptorship, 1995.
- Howard B. Wentz Award, 1994.

### Honors and Awards for Teaching:

- Columbia University's Presidential Award for Outstanding Teaching, 2009.
- Columbia University's Engineering School Alumni Association Distinguished Faculty Teaching Award, 2003.
- Princeton University's President's Award for Distinguished Teaching, 1995.

- Princeton University's E-Council Lifetime Achievement Award for Excellence in Teaching, 2001.
- Princeton University's E-Council Excellence in Teaching Award, 1992, 1993, 1996, 1997, 1998, 2000 (six-time winner).
- Educator of the Year, ASCE New Jersey Section, 1999.

### **Research Interests:**

Probabilistic mechanics, simulation of stochastic processes and fields to model uncertain earthquake/wind loads and material/soil properties, earthquake engineering, structural dynamics, random vibrations, reliability and safety analysis of structures, stochastic finite element methods, risk assessment and risk management of civil infrastructure systems.

### **Service to the Profession:**

#### **Administrative Positions in Professional Societies:**

President of International Association for Structural Safety and Reliability (2009-today)

#### **Membership in Editorial Boards of Technical Journals:**

Journal of Probabilistic Engineering Mechanics (1999-today).

Journal of Soil Dynamics and Earthquake Engineering (2009-today).

Journal of Structure and Infrastructure Engineering (Book Review Editor: 2008-today)

Journal of Engineering Mechanics, ASCE (Associate Editor: 2000-2002).

#### **Editor of Conference Proceedings:**

Fourth International Conference on Computational Stochastic Mechanics, 2003 (co-editor).

Fifth International Conference on Computational Stochastic Mechanics, 2007 (co-editor).

#### **Editor of Special Journal Volumes:**

Journal of Probabilistic Engineering Mechanics: Special Volume from 4<sup>th</sup> International Conference on Computational Stochastic Mechanics, 2004 (co-editor).

Journal of Probabilistic Engineering Mechanics: Special Volume from 5<sup>th</sup> International Conference on Computational Stochastic Mechanics, 2008 (co-editor).

#### **Committee Membership in Professional Societies:**

- International Association for Structural Safety and Reliability: Chair of Umbrella Committee on Stochastic Methods in Structural Engineering, 2007 - today.
- International Association for Structural Safety and Reliability: Chair of Subcommittee on Computational Stochastic Mechanics, 2003 - 2007.
- American Society of Civil Engineers Engineering Mechanics Division: Chair and Member of Control Group of the Probabilistic Methods Committee, 2000 - 2002.

- American Society of Civil Engineers Engineering Mechanics Division: Member of Probabilistic Methods Committee, 2005 - today.

**Committee Membership in Conferences:**

- Scientific Committee of Second International Conference on Computational Stochastic Mechanics, 1994.
- Scientific Advisory Committee of Eighth International Conference on Soil Dynamics and Earthquake Engineering, 1997.
- Scientific Committee of Third International Conference on Computational Stochastic Mechanics, 1998.
- Scientific Committee of 8<sup>th</sup> ASCE Specialty Conference on Probabilistic Mechanics and Structural Reliability, 2000.
- Scientific Committee of the 8<sup>th</sup> International Conference on Structural Safety and Reliability, 2001.
- Organizing Committee of the 10<sup>th</sup> International Conference on Soil Dynamics and Earthquake Engineering, 2001.
- Scientific Committee of Fourth International Conference on Computational Stochastic Mechanics, 2002.
- Steering Committee and Organizing Committee, 15<sup>th</sup> ASCE Engineering Mechanics Conference, 2002.
- Scientific Committee of 9<sup>th</sup> International Conference on Applications of Statistics and Probability in Civil Engineering, 2003.
- Scientific Committee of the 9<sup>th</sup> International Conference on Structural Safety and Reliability, 2005.
- Scientific Committee of Fifth International Conference on Computational Stochastic Mechanics, 2006.
- Scientific Committee of 10<sup>th</sup> International Conference on Applications of Statistics and Probability in Civil Engineering, 2007.
- Scientific Committee of the 10<sup>th</sup> International Conference on Structural Safety and Reliability, 2009.

**Reviewer for Journals (selective list):**

ASCE Journal of Engineering Mechanics, ASCE Journal of Structural Engineering, ASME Journal of Applied Mechanics, ASME Journal of Vibration and Acoustics, Earthquake Engineering and Structural Dynamics, Nuclear Engineering and Design, Probabilistic Engineering Mechanics, Soil Dynamics and Earthquake Engineering, Structural Safety, Wind Engineering and Industrial Aerodynamics.

**Teaching Experience:**

**Courses taught:**

- The Art of Structural Design (undergraduate - Columbia)
- Structural Analysis (undergraduate - Columbia)

- Uncertainty and Risk in Engineering Systems (undergraduate/graduate - Columbia)
- Random Processes in Mechanics (graduate - Columbia)
- Design of Buildings, Bridges and Spacecraft (undergraduate - Columbia)
- Random Vibrations: Applications to Earthquake & Wind Engineering (graduate - Princeton)
- Reliability of Engineering Systems (undergraduate/graduate - Princeton)
- Introduction to Finite Element Methods (undergraduate/graduate - Princeton)
- Mechanics of Solids (undergraduate - Princeton)
- Matrix Structural Analysis (undergraduate - Princeton)
- Analysis and Design of Reinforced Concrete Structures (undergraduate - Princeton)
- Structures and the Urban Environment (preceptor - undergraduate - Princeton)

#### **Ph.D. Students Graduated:**

- Manuel Miranda, 2009 (currently at Brookhaven National Laboratory)
- Yuhong He, 2006 (currently at American Express)
- Yuwei Shi, 2006 (currently at Parsons)
- Andreas Rambalacos, 2006 (currently at the Federal Aviation Administration)
- James Tantalla, 2002 (currently at Mueser Rutledge Consulting Engineers)
- Stelios Koutsourelakis, 2002 (currently Assistant Professor, Department of Civil and Environmental Engineering, Cornell University)
- Vinita Saxena, 2000 (currently Vice President at Aon Re Services Inc.)
- Raymond Micaletti, 1999 (currently private consultant in Wall Street)
- Lori Graham-Brady, 1996 (currently Associate Professor, Department of Civil Engineering, Johns Hopkins University)
- Liyang Zhang, 1995 (currently private consultant in Wall Street)
- Derin Ural, 1994 (currently Professor, Department of Civil Engineering, Istanbul Technical University)

#### **Current Ph.D. Students:**

- Michael Tantala (Princeton).
- Tevia Gurvich (Columbia)
- Michael Shields (Columbia)
- Kirubel Teferra (Columbia)
- Emmanouil Chatzis (Columbia)
- Badri Hiriyur (Columbia)
- Yunji Hwang (Columbia)

#### **Undergraduate Senior Theses Advised to Date:**

- Forty one students.

### **Administrative Responsibilities Within Columbia**

- Member of Steering Committee, Center for Hazards and Risk Research of the Earth Institute, 2002 – today.
- Member of Dean's Committee for First Two Years, School of Engineering and Applied Science, 2002 - 2003.
- Member of Mission Statement Subcommittee of the School of Engineering and Applied Science, 2003.
- Member and/or Chair of various SEAS Ad Hoc Committees for the promotion of faculty members in the School of Engineering and Applied Science to the tenure ranks.
- Member of Dean's Committee for Computational Biology, School of Engineering and Applied Science, 2004.
- Member of Dean's Committee for ABET accreditation, 2005 – 2006.
- Member of University Ad Hoc Committees for the promotion of a faculty member to the tenure ranks.
- Member of the Provost's Committee on Quality of Life of the Faculty, 2006 – today.
- Member of the Provost's Committee on Housing, 2007 – 2009.
- Member of the President's Task Force on Undergraduate Education, 2006 – 2009.
- Member of the Dean's Committee for Diversity in Engineering, 2005 – today.
- Chair/Member of Various Committees within the Department of Civil Engineering and Engineering Mechanics, the most important being the ABET certification one (2005 – today).

### **Administrative Responsibilities Within Princeton**

- Director, Program in Mechanics, Materials, and Structures, Department of Civil Engineering and Operations Research, 1997-1999.
- Advisor for Students in the Classes of '97, '98 and '99 in the Structures & Mechanics and Architecture & Engineering Programs at the Department of Civil Engineering and Operations Research.
- Advisor for Students in the Classes of '01 and '02 (fall semester only) in the Structures & Mechanics Program at the Department of Civil and Environmental Engineering.
- Freshman Advisor for the School of Engineering and Applied Science, 1992-1993, 1993-1994, 1994-1995, 2000-2001 and 2001-2002 (fall semester only).
- Member of the Committee on Examinations and Standing (University Committee), 1993-1994 and 1994-1995.
- Member of the Committee on Course of Study (University Committee), 2000-2001 and 2001-2002 (fall semester only).
- Member of the Committee of the Architecture and Engineering Program (University Committee), 1993-2001.
- Member of the Committee of the Engineering Physics Program (University Committee), 1995-2001.
- Member of the Committee of the Master of Engineering Program (School of Engineering and Applied Science Committee), 1996-1999.

## **LIST OF PUBLICATIONS OF GEORGE DEODATIS**

### **Books**

1. Deodatis, G. and Shinozuka, M. (2009). Simulation of Stochastic Processes and Fields: Theories and Applications, *Cambridge University Press*, New York (to be published).
2. Tassios, T.P. and Deodatis, G. (1984). Practical Design of Reinforced and Prestressed Concrete Structures Against Fire, *National Technical University of Athens Press*, Athens (in Greek).

### **Journal Publications**

1. Naganuma, T., Deodatis, G. and Shinozuka, M. (1987). "ARMA Model for Two-Dimensional Processes," *Journal of Engineering Mechanics*, ASCE, Vol. 113, No. 2, pp. 234-251.
2. Shinozuka, M. and Deodatis, G. (1988). "Response Variability of Stochastic Finite Element Systems," *Journal of Engineering Mechanics*, ASCE, Vol. 114, No. 3, pp. 499-519.
3. Shinozuka, M. and Deodatis, G. (1988). "Stochastic Process Models for Earthquake Ground Motion," *Probabilistic Engineering Mechanics*, Vol. 3, No. 3, pp. 114-123.
4. Deodatis, G. and Shinozuka, M. (1988). "Auto-Regressive Model for Non-Stationary Stochastic Processes," *Journal of Engineering Mechanics*, ASCE, Vol. 114, No. 11, pp. 1995-2012.
5. Deodatis, G. (1989). "Stochastic FEM Sensitivity Analysis of Nonlinear Dynamic Problems," *Probabilistic Engineering Mechanics*, Vol. 4, No. 3, pp. 135-141.
6. Deodatis, G. and Shinozuka, M. (1989). "Bounds on Response Variability of Stochastic Systems," *Journal of Engineering Mechanics*, ASCE, Vol. 115, No. 11, pp. 2543-2563.
7. Deodatis, G. and Shinozuka, M. (1989). "Simulation of Seismic Ground Motion Using Stochastic Waves," *Journal of Engineering Mechanics*, ASCE, Vol. 115, No. 12, pp. 2723-2737.
8. Deodatis, G., Shinozuka, M. and Neal, D. (1989). "Spatial Strength Variation of Laminated Orthotropic Composites," *Journal of Composite Materials*, Vol. 23, No. 12, pp. 1256-1272.
9. Deodatis, G. (1990). "Bounds on Response Variability of Stochastic Finite Element Systems," *Journal of Engineering Mechanics*, ASCE, Vol. 116, No. 3, pp. 565-585.

10. Deodatis, G. (1990). "Bounds on Response Variability of Stochastic Finite Element Systems: Effect of Statistical Dependence," *Probabilistic Engineering Mechanics*, Vol. 5, No. 2, pp. 88-98.
11. Deodatis, G., Shinozuka, M. and Papageorgiou, A. (1990). "Stochastic Wave Representation of Seismic Ground Motion. I: F-K Spectra," *Journal of Engineering Mechanics*, ASCE, Vol. 116, No. 11, pp. 2363-2379.
12. Deodatis, G., Shinozuka, M. and Papageorgiou, A. (1990). "Stochastic Wave Representation of Seismic Ground Motion. II: Simulation," *Journal of Engineering Mechanics*, ASCE, Vol. 116, No. 11, pp. 2381-2399.
13. Shinozuka, M. and Deodatis, G. (1991). "Simulation of Stochastic Processes by Spectral Representation," *Applied Mechanics Reviews*, ASME, Vol. 44, No. 4, pp. 191-204.
14. Shinozuka, M. and Deodatis, G. (1991). "Stochastic Wave Models for Stationary and Homogeneous Seismic Ground Motion," *Structural Safety*, Vol. 10, Nos. 1-3, pp. 235-246.
15. Deodatis, G. (1991). "The Weighted Integral Method. I: Stochastic Stiffness Matrix," *Journal of Engineering Mechanics*, ASCE, Vol. 117, No. 8, pp. 1851-1864.
16. Deodatis, G. and Shinozuka, M. (1991). "The Weighted Integral Method. II: Response Variability and Reliability," *Journal of Engineering Mechanics*, ASCE, Vol. 117, No. 8, pp. 1865-1877.
17. Deodatis, G., Fujimoto, Y., Ito, S., Spencer, J. and Itagaki, H. (1992). "Non-Periodic Inspection by Bayesian Method I," *Probabilistic Engineering Mechanics*, Vol. 7, No. 4, pp. 191-204.
18. Ito, S., Deodatis, G., Fujimoto, Y., Asada, H. and Shinozuka, M. (1992). "Non-Periodic Inspection by Bayesian Method II: Structures with Elements Subjected to Different Stress Levels," *Probabilistic Engineering Mechanics*, Vol. 7, No. 4, pp. 205-215.
19. Theoharis, A.P. and Deodatis, G. (1994). "Seismic Ground Motion in a Layered Half-Space Due to a Haskell-Type Source. I: Theory," *Soil Dynamics and Earthquake Engineering*, Vol. 13, No. 4, pp. 281-292.
20. Deodatis, G. and Theoharis, A.P. (1994). "Seismic Ground Motion in a Layered Half-Space Due to a Haskell-Type Source. II: Applications," *Soil Dynamics and Earthquake Engineering*, Vol. 13, No. 4, pp. 293-301.
21. Wall, F.J. and Deodatis, G. (1994). "Variability Response Functions and Upper Bounds of Response of 2D Stochastic Systems," *Journal of Engineering Mechanics*, ASCE, Vol. 120, No. 9, pp. 1963-1982.

22. Matteo, J., Deodatis, G. and Billington, D.P. (1994). "Reliability Analysis of Suspension Bridge Cables: The Williamsburg Bridge," *Journal of Structural Engineering*, ASCE, Vol. 120, No. 11, pp. 3197-3211.
23. Shinozuka, M. and Deodatis, G. (1996). "Simulation of Multi-Dimensional Gaussian Stochastic Fields by Spectral Representation," *Applied Mechanics Reviews*, ASME, Vol. 49, No. 1, pp. 29-53.
24. Deodatis, G., Asada, H. and Ito, S. (1996). "Reliability of Aircraft Structures Under Non-Periodic Inspection: A Bayesian Approach," *Journal of Engineering Fracture Mechanics*, Vol. 53, No. 5, pp. 789-805.
25. Zhang, R. and Deodatis, G. (1996). "Seismic Ground Motion Synthetics of the 1989 Loma Prieta Earthquake," *Earthquake Engineering and Structural Dynamics*, Vol. 25, No. 5, pp. 465-481.
26. Deodatis, G. (1996). "Non-Stationary Stochastic Vector Processes: Seismic Ground Motion Applications," *Probabilistic Engineering Mechanics*, Vol. 11, No. 3, pp. 149-167.
27. Deodatis, G. (1996). "Simulation of Ergodic Multi-Variate Stochastic Processes," *Journal of Engineering Mechanics*, ASCE, Vol. 122, No. 8, pp. 778-787.
28. Deodatis, G. (1997). "Simulation of Stochastic Processes and Fields to Model Loading and Material Uncertainties," *Probabilistic Methods for Structural Design* (Editor: Carlos Guedes Soares), Kluwer Academic Publishers, pp. 261-288.
29. Deodatis, G. and Graham, L. (1997). "The Weighted Integral Method and the Variability Response Function as Part of a SFEM Formulation," *Uncertainty Modeling in Finite Element, Fatigue and Stability of Systems* (Editors: A. Haldar, A. Guran and B.M. Ayyub), World Scientific, pp. 71-116.
30. Popescu, R., Prevost, J.H. and Deodatis, G. (1997). "Effects of Spatial Variability on Soil Liquefaction: Some Design Implications," *Geotechnique*, Vol. XLVII, No. 5, pp. 1019-1036.
31. Deodatis, G. (contributor to three sections of the report) (1997). "A State-of-the-Art Report on Computational Stochastic Mechanics," *Probabilistic Engineering Mechanics* (Editor: G.I. Schueller), Vol. 12, No. 4, pp. 197-321.
32. Popescu, R., Deodatis, G. and Prevost, J.H. (1998). "Simulation of Homogeneous, Non-Gaussian, Stochastic Vector Fields," *Probabilistic Engineering Mechanics*, Vol. 13, No. 1, pp. 1-13.



33. Graham, L. and Deodatis, G. (1998). "Variability Response Functions for Stochastic Plate Bending Problems," *Structural Safety*, Vol. 20, No. 2, pp. 167-188.
34. Shinozuka, M., Deodatis, G., Zhang, R. and Papageorgiou, A.S. (1999). "Modeling, Simulation and Engineering Applications of Strong Earthquake Wave Motion," *Soil Dynamics and Earthquake Engineering*, Vol. 18, No. 3, pp. 209-228.
35. Graham, L. and Deodatis, G. (2001). "Response and Eigenvalue Analysis of Stochastic Finite Element Systems with Multiple Correlated Material and Geometric Properties," *Probabilistic Engineering Mechanics*, Vol. 16, No. 1, pp. 11-29.
36. Deodatis, G. and Micaletti, R.C. (2001). "Simulation of Highly Skewed Non-Gaussian Stochastic Processes," *Journal of Engineering Mechanics*, ASCE, Vol. 127, No. 12, pp. 1284-1295.
37. Koutsourelakis, S., Prevost, J-H. and Deodatis, G. (2002). "Risk Assessment of an Interacting Structure-Soil System Due to Liquefaction," *Earthquake Engineering and Structural Dynamics*, Vol. 31, No. 4, pp. 851-879.
38. Moropoulou, A., Polikreti, K., Ruf, V. and Deodatis, G. (2003). "San Francisco Monastery, Quito, Equador: Characterisation of Building Materials, Damage Assessment and Conservation Considerations," *Journal of Cultural Heritage*, Vol. 4, No. 2, pp. 101-108.
39. Deodatis, G., Graham-Brady, L. and Micaletti, R. (2003). "A Hierarchy of Upper Bounds on the Response of Stochastic Systems With Large Variation of their Properties: Random Variable Case," *Probabilistic Engineering Mechanics*, Vol. 18, No. 4, pp. 349-364.
40. Deodatis, G., Graham-Brady, L. and Micaletti, R. (2003). "A Hierarchy of Upper Bounds on the Response of Stochastic Systems With Large Variation of their Properties: Random Field Case," *Probabilistic Engineering Mechanics*, Vol. 18, No. 4, pp. 365-375.
41. Smyth, A.W., Altay, G., Deodatis, G., Erdik, M., Franco, G., Gülkan, P., Kunreuther, H., Luş, H., Mete, E., Seeber, L. and Yüzügüllü, O. (2004). "Probabilistic Benefit-Cost Analysis for Earthquake Damage Mitigation: Evaluating Measures for Apartment Houses in Turkey," *Earthquake Spectra*, Vol. 20, No. 1, pp 171-203.
42. Koutsourelakis, S. and Deodatis, G. (2005). "Simulation of Binary Random Fields With Applications to Two-Phase Random Media," *Journal of Engineering Mechanics*, ASCE, Vol. 131, No. 4, pp. 397-412.
43. Papadopoulos, V., Deodatis, G. and Papadrakakis, M. (2005). "Flexibility-Based Upper Bounds on the Response Variability of Simple Beams," *Computer Methods in Applied Mechanics and Engineering*, Vol. 194, Nos. 12-16, pp. 1385-1404.

44. Popescu, R., Prevost, J.H. and Deodatis, G. (2005). "3D Effects in Seismic Liquefaction of Stochastically Variable Soil Deposits," *Geotechnique*, Vol. 55, No. 1, pp. 21-31.
45. Popescu, R., Deodatis, G. and Nobahar, A. (2005). "Effects of Random Heterogeneity of Soil Properties on Bearing Capacity," *Probabilistic Engineering Mechanics*, Vol. 20, No. 4, pp. 324-341.
46. Papadopoulos, V. and Deodatis, G. (2006). "Response Variability of Stochastic Frame Structures Using Evolutionary Field Theory," *Computer Methods in Applied Mechanics and Engineering*, Vol. 195, Nos. 9-12, pp. 1050-1074.
47. Koutsourelakis, S. and Deodatis, G. (2006). "Simulation of Multi-Dimensional Binary Random Fields with Application to Modeling of Two-Phase Random Media," *Journal of Engineering Mechanics*, ASCE, Vol. 132, No. 6, pp. 619-631.
48. Popescu, R., Prevost, J.H., Deodatis, G. and Chakraborty, P. (2006). "Dynamics of Nonlinear Porous Media with Applications to Soil Liquefaction," *Soil Dynamics and Earthquake Engineering*, Vol. 26, Nos. 6-7, pp. 648-665.
49. Papadopoulos, V., Papadarakakis, M. and Deodatis, G. (2006). "Analysis of Mean and Mean Square Response of General Linear Stochastic Finite Element Systems," *Computer Methods in Applied Mechanics and Engineering*, Vol. 195, Nos. 41-43, pp. 5454-5471.
50. Shi, Y., Deodatis, G. and Betti, R. (2007). "Random Field-Based Approach for Strength Evaluation of Suspension Bridge Cables," *Journal of Structural Engineering*, ASCE, Vol. 133, No. 12, pp. 1690-1699.
51. Popescu, R., Deodatis, G. and Prevost, J.H. (2008). "Randomly Heterogeneous Soils Under Static and Dynamic Loads," *Reliability-Based Design in Geotechnical Engineering: Computations and Applications* (Editor: K-K. Phoon), Taylor and Francis, Chapter 6, pp. 224-259.
52. Bocchini, P. and Deodatis, G. (2008). "Critical Review and Latest Developments of a Class of Simulation Algorithms for Strongly Non-Gaussian Random Fields," *Probabilistic Engineering Mechanics*, Vol. 23, No. 4, pp. 393-407.
53. Tantalala, M., Nordenson, G., Deodatis, G. and Jacob, K. (2008). "Earthquake Loss Estimation for the New York City Metropolitan Area," *Soil Dynamics and Earthquake Engineering*, Vol. 28, Nos. 10-11, pp. 812-835.
54. Franco, G., Green, R., Khazai, B., Smyth, A. and Deodatis, G. (2009). "Field Survey of Katrina Depth-Damage Relationships for New Orleans Homes," accepted for publication in ASCE's *Natural Hazards Review*.

## **Conference Publications**

1. Naganuma, T., Deodatis, G., Shinozuka, M. and Samaras, E. (1985). "Digital Generation of Multidimensional Random Fields," Structural Safety and Reliability, Proceedings of the 4th International Conference on Structural Safety and Reliability (Editors: I. Konishi, A. H-S. Ang, M. Shinozuka), Kobe, Japan, May 27-29, an IASSAR Publication, pp. I.251-I.260.
2. Deodatis, G., Shinozuka, M. and Samaras, E. (1985). "An AR Model for Non-Stationary Processes," Proceedings of the 2nd International Conference on Soil Dynamics and Earthquake Engineering (Editors: C. A. Brebbia, A. S. Cakmak, A. M. Abdel Ghaffar), on board the liner the Queen Elizabeth 2, New York to Southampton, June/July, a Computational Mechanics Publication, Springer-Verlag, pp. 2.57-2.66.
3. Shinozuka, M., Deodatis, G. and Harada, T. (1987). "Digital Simulation of Seismic Ground Motion," Proceedings of the US-Japan Joint Seminar on Stochastic Approaches in Earthquake Engineering (Editors: Y. K. Lin, R. Minai), Boca Raton, Florida, May 6-7, Lecture Notes in Engineering, Vol. 32, Springer-Verlag, pp. 252-298.
4. Shinozuka, M., Deodatis, G. and Wu, W-F. (1987). "Nonlinear Dynamic Response and System Stochasticity," Proceedings of the IUTAM Symposium on Nonlinear Stochastic Dynamic Engineering Systems (Editors: F. Ziegler, G. I. Schueller), Innsbruck/Igls, Austria, June 21-26, Springer-Verlag, pp. 255-268.
5. Deodatis, G. and Shinozuka, M. (1988). "Stochastic FEM Analysis of Nonlinear Dynamic Problems," Proceedings of the 5th ASCE Specialty Conference on Probabilistic Methods in Civil Engineering (Editor: P. D. Spanos), Blacksburg, Virginia, May 25-27, an ASCE Publication, pp. 152-155.
6. Deodatis, G. and Shinozuka, M. (1988). "Digital Simulation of Seismic Ground Motion Using Stochastic Wave Theory," Proceedings of the 9th World Conference on Earthquake Engineering, Tokyo-Kyoto, Japan, August 2-9, pp. II.801-II.806.
7. Shinozuka, M. and Deodatis, G. (1989). "Stochastic Wave Models for Seismic Ground Motion," Structural Safety and Reliability, Proceedings of ICOSSAR '89, the 5th International Conference on Structural Safety and Reliability (Editors: A. H-S. Ang, M. Shinozuka and G. I. Schueller), San Francisco, California, August 7-11, an ASCE Publication, Vol. I, pp. 335-342.
8. Deodatis, G. and Shinozuka, M. (1989). "Spectral Distribution Free Bounds on the Response Variability of Stochastic Systems," Structural Safety and Reliability, Proceedings of ICOSSAR '89, the 5th International Conference on Structural Safety and Reliability (Editors: A. H-S. Ang, M. Shinozuka and G. I. Schueller), San Francisco, California, August 7-11, an ASCE Publication, Vol. II, pp. 1057-1064.

9. Deodatis, G., Shinozuka, M. and Papageorgiou, A. (1990). "Frequency-Wave Number Spectra from Seismic Sources in a Half-Space," Proceedings of the 4th U.S. National Conference on Earthquake Engineering, Palm Springs, California, May 20-24, a EERI Publication, Vol. I, pp. 447-456.
10. Deodatis, G. and Shinozuka, M. (1991). "The Weighted Integral Method for Calculating the Stochastic Stiffness Matrix of Stochastic Systems," Proceedings of the 1991 ASCE Engineering Mechanics Specialty Conference on Mechanics Computing in 1990's and Beyond (Editors: H. Adeli and R.L. Sierakowski), Columbus, Ohio, May 20-22, an ASCE Publication, pp. 183-187.
11. Deodatis, G. and Shinozuka, M. (1991). "Response Variability and Reliability of Stochastic Systems Using the Weighted Integral Method," Proceedings of the 1991 ASCE Engineering Mechanics Specialty Conference on Mechanics Computing in 1990's and Beyond (Editors: H. Adeli and R.L. Sierakowski), Columbus, Ohio, May 20-22, an ASCE Publication, pp. 263-267.
12. Deodatis, G., Wall, W. and Shinozuka, M. (1991). "Analysis of Two-Dimensional Stochastic Systems by the Weighted Integral Method," Proceedings of the 1st International Conference on Computational Stochastic Mechanics, (Editors: P.D. Spanos and C.A. Brebbia), Corfu, Greece, September 17-19, an Elsevier Applied Science Publication, pp. 395-406.
13. Billington, D. P. and Deodatis, G. (1991). "Form and Aesthetics in Cable-Stayed Bridges," Proceedings of the Seminar on Cable-Stayed Bridges: Recent Developments and their Future, (Editors: M. Ito et al.), Yokohama, Japan, December 10-11, an Elsevier Publication, pp. 35-55.
14. Deodatis, G. and Shinozuka, M. (1992). "Response Variability of Reinforced Concrete Frames with Stochastic Material Properties," Honorary Volume for Professor T. P. Tassios, National Technical University of Athens, Department of Civil Engineering, pp. 27-48.
15. Deodatis, G., Theoharis, A. and Shinozuka, M. (1992). "F-K Spectra from a Haskell-Type Source in a Multiple-Layered Half-Space," Proceedings of the 6th ASCE Specialty Conference on Probabilistic Mechanics and Structural and Geotechnical Reliability, (Editor: Y.K. Lin), Denver, Colorado, July 8-10, an ASCE Publication, pp. 272-275.
16. Wall, F. and Deodatis, G. (1992). "Response Variability and Reliability of Plates Using the Weighted Integral Method," Proceedings of the 6th ASCE Specialty Conference on Probabilistic Mechanics and Structural and Geotechnical Reliability, (Editor: Y.K. Lin), Denver, Colorado, July 8-10, an ASCE Publication, pp. 41-44.
17. Deodatis, G. and Theoharis, A. (1992). "Simulation of Seismic Ground Motion in the New Madrid Area Using Analytically Derived Frequency-Wave Number Fourier Amplitudes,"

Proceedings of the 10th World Conference on Earthquake Engineering, Madrid, Spain, July 19-24, Balkema, pp. 885-890.

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