

APPENDIX K BIBLIOGRAPHY

ACI, 1991, *State-of-the-Art Report on Anchorage to Concrete*, Report No. 355.1R-91, ACI Committee 355, ACI Manual of Concrete Practice, American Concrete Institute, Detroit, Michigan

AF&PA, 1991a, *National Design Specification for Wood Construction*, American Forest & Paper Association, Washington, D.C.

AF & PA, 1991b, *Design Values for Wood Construction*, supplement to the 1991 Edition National Design Specification, American Forest & Paper Association, Washington, D.C.

AF & PA, 1994, *National Design Specification for Wood Construction*, American Forest & Paper Association, Washington, D.C.

AISC, 1994b, *Manual of Steel Construction, Load and Resistance Factor Design, Volume II, Connections*, American Institute of Steel Construction, Chicago, Illinois.

AISI, 1973, *The Criteria for Structural Applications for Steel Cables for Building, 1973 Edition*, American Iron and Steel Institute, Washington, D.C.

AISI, 1986, *Specifications of the Design of Cold-Formed Steel Structural Members*, August 10, 1986 edition with December 11, 1989 Addendum, American Iron and Steel Institute, Chicago, Illinois.

Ambraseys, N.N., 1973, "Dynamics and Response of Foundation Materials in Epicentral Regions of Strong Earthquakes," *Proceeding 5th World Conference Earthquake Engineering*, Rome.

Andrus, R.D. and Stokoe, K.H., 1997, "Liquefaction Resistance Based on Shear Wave Velocity," *Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils, Salt Lake City, Utah*, NCEER-97-0022, p. 89-128.

APA, 1983, Research Report # 138, American Plywood Association, Tacoma, Washington.

APA, 1988, *Plywood Design Specifications Supplement*, American Plywood Association, Tacoma, Washington.

APA, 1990, Research Report # 154, American Plywood Association, Tacoma, Washington.

Arias, A., 1970, "A Measure of Earthquake Intensity," *Seismic design for Nuclear Power Plants*, R. Hanson, Editor, Massachusetts Institute of Technology Press, Cambridge, MA.

API, 1993, *Welded Steel Tanks for Oil Storage*, API STD 650, American Petroleum Institute, Washington, D.C.

ASCE Soil Improvement and Geosynthetics Committee, Ground Improvement Subcommittee, 1997, "Soil Improvement and Geosynthetics Committee Report," Ground Improvement, Ground Reinforcement and Ground Treatment, Developments 1987-1997, Geotechnical Special Publication No. 69, *Proceedings of the sessions sponsored by the Committee on Soil Improvement and Geosynthetics of the Geo-Institute of ASCE in conjunction with Geo-Logan '97*, Logan, Utah, July 1997, V.R. Schaefer, ed., ASCE, pp. 1-371.

ASCE, 1990, *Specifications for the Design of Cold-Formed Steel Stainless Steel Structural Members*, Report No. ASCE-8, American Society of Civil Engineers, New York, New York.

ASME, 1996, *Safety Code for Elevators and Escalators*, ASME A17.1, American Society of Mechanical Engineers, New York, New York.

ASME, 1995, *Boiler and Pressure Vessel Code*, including addenda through 1993, American Society of Mechanical Engineers, New York, New York.

ASTM, 1980, *Conducting Strength Tests of Panels for Building Construction*, Report No. ASTM E-72, American Society for Testing Materials, Philadelphia, Pennsylvania.

ASTM, 1992, *Standard Methods for Establishing Structural Grades and Related Allowable Properties for Visually Graded Lumber*, Report No. ASTM D 245, American Society for Testing Materials, Philadelphia, Pennsylvania.

ASTM, 1994, *Standard Test Methods for Penetration Test and Split-Barrel Sampling of Soils: Test Designation D1586-84*, ASTM Standards, American Society for Testing Materials, Philadelphia, Pennsylvania.

ATC, 1981, *Guidelines for the Design of Horizontal Wood Diaphragms*, Report No. ATC-7, Applied Technology Council, Redwood City, California.

ATC, 1982, *An Investigation of the Correlation Between Earthquake Ground Motion and Building Performance*,

- (Report No. ATC-10), Applied Technology Council, Redwood City, California.
- ATC, 1992, *Guidelines for Seismic Testing of Components of Steel Structures*, (Report No. ATC-24), Applied Technology Council, Redwood City, California.
- ATC, 1994, *A Critical Review of Current Approaches to Earthquake-Resistant Design*, (Report No. ATC-34), Applied Technology Council, Redwood City, California.
- Atkinson, G.M., and Boore, D.M., 1995, "Ground Motion Relations for Eastern North America", *Bulletin of the Seismological Society of America*, v. 85, no. 1.
- Atkinson, G.M., and Boore, D.M., 1997, "Some Comparisons Between Recent Ground-Motion Relations", *Seismological Research Letters*, v. 68, no. 1, p. 24-40.
- AWWA, 1996, *Welded Steel Tanks for Water Storage*, ANSI/AWWA D100-96, American Water Works Association, Denver, Colorado.
- Baez, J.I. and Martin, G.R., 1992, "Quantitative evaluation of stone column techniques for earthquake liquefaction mitigation," *Earthquake Engineering, Tenth World Conference*.
- Bartlett, S.F., and Youd, T.L., 1992, "Empirical prediction of lateral spread displacement," in Hamada, M., and O'Rourke, T.D. (eds.). *Proceedings from the Fourth Japan-U.S. Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures for Soil Liquefaction*, Technical Report NCEER-92-0019, v. I, p. 351-365.
- Bartlett, S.F. and Youd, T.L., 1995, "Empirical prediction of liquefaction-induced lateral spread," *Journal of Geotechnical Engineering, American Society of Civil Engineers*, v. 121, no. 4, p. 316-329.
- Baziar, M.H., Dobry, R., and Elgamal, A-W.M., 1992, *Engineering evaluation of permanent ground deformations due to seismically-induced liquefaction*, Technical Report NCEER-92-0007, March.
- Bertero, V.V., 1996, "State-of-the-Art Report on Design Criteria," *Proceedings of the Eleventh World Conference on Earthquake Engineering*, Acapulco, Mexico.
- Bolt, B.A., 1973, "Duration of Strong Ground Motion", *Proceedings of Fifth World Conference on Earthquake Engineering*, Rome.
- Bolt, B.A., 1988, *Earthquake* (2nd Edition), W.H. Freeman and Company, New York.
- Bolt, B.A., 1993, *Earthquake*, W.H. Freeman and Company, New York.
- Bonacci, J.F., 1989, *Experiments to Study Seismic Drift of RC Structures*, Ph.D. diss., Graduate College, University of Illinois, Urbana, Illinois.
- Boore, D.M., And Joyner, W.B., 1994, "Prediction of Ground Motion in North America," *Proceedings: Seminar on New Development on Earthquake Ground Motion Estimation and Implications for Engineering Design Practice*, Report No. ATC-35-1, Applied Technology Council, Redwood City, California, pp. 6-1-6-41.
- BSSC, 1997, *NEHRP Guidelines for the Seismic Rehabilitation of Buildings*. Prepared by the Building Seismic Safety Council for the Federal Emergency Management Agency (Report No. FEMA 273), Washington, D.C.
- BSSC, 1997, *NEHRP Commentary on the Guidelines for the Seismic Rehabilitation of Buildings*. Prepared by the Building Seismic Safety Council for the Federal Emergency Management Agency (Report No. FEMA 274), Washington, D.C.
- California Division of Mines and Geology, 1989, *Plots of the Processed Data for the Interim Set of 14 Records From the Santa Cruz Mountains (Loma Prieta) Earthquake of October 17, 1989*, Report OSMS 89-08.
- Chinnery, M.A., and Penzien, J., 1993, "Earthquake Statistics in Southern New England," *Earthquake Notes*, v. XLIV, no. 304.
- Chinnery, M.A. and Rogers, D.A., 1973, "Earthquake Statistics in Southern New England," *Earthquake Notes*, v. XLIV, no. 304.
- Chopra, A., 1981, *Dynamics of Structures, A Primer*, Earthquake Engineering Research Institute, Berkeley, California, 126 p.
- CISCA, 1990, *Recommendations for Direct-Hung Acoustical and Lay-In Panel Ceilings, Seismic Zones 3-4*, Ceilings and Interior System Construction Association, Deerfield, Illinois.
- CISCA, 1991, *Recommendations for Direct-Hung Acoustical and Lay-In Panel Ceilings, Seismic Zones 0-2*,

- Ceilings and Interior System Construction Association, Deerfield, Illinois.
- Clough, R., and Penzien, J., 1993, *Dynamics of Structures*, McGraw-Hill, New York, New York.
- Constantinou, M.C., Soong, T.T., and Dargush, G.F., 1996, *Passive Energy Dissipation Systems for Structural Design and Retrofit*, National Center for Earthquake Engineering Research, Buffalo, New York.
- Coppersmith, K.J., and Youngs, R.R., 1986, 'Capturing Uncertainty in Probabilistic Seismic Hazard Assessments within Intraplate environments,' *Proceedings of the Third National Conference on Earthquake Engineering*, Charleston, South Carolina, August 24-28, v. I, p. 301-312.
- Cornell, C.A., 1968, 'Engineering Seismic Risk Analysis,' *Bulletin of the Seismological Society of America*, v. 58, p. 1583-1606.
- Cornell, C.A., and Vanmarcke, E.H., 1969, 'The Major Influences on Seismic Risk,' *Proceedings of the Third World Conference on Earthquake Engineering*, Santiago, Chile, v. A-1, p. 69-93.
- Department of Defense, 1997, *Department of Defense Handbook, Soil Dynamics And Special Design Aspects*; Publication MIL-HDBK-1007/3 (superceding NAVFAC DM-7.3).
- Der Kiureghian, A., and Ang, A. H-S., 1977, 'A Fault Rupture Model for Seismic Risk Analysis,' *Bulletin of the Seismological Society of America*, v. 67, no. 4, p. 1173-1194.
- Dobry, R., Idris, I.M., and Ng, E., 1978, 'Duration Characteristics of Horizontal Components of Strong Ground Motion Earthquake Records,' *Bulletin of the Seismological Society of America*, Vol. 68, No. 5, pp.1487-1520.
- Dobry, R., Stokoe, K.H., Ladd, R.S., and Youd, T.L., 1981, 'Liquefaction Susceptibility from S-wave Velocity,' *Proceedings, In-Situ Testing to Evaluate Liquefaction Susceptibility*, American Society of Civil Engineers, National Convention, St. Louis, Missouri, October.
- Drake, R.M., and Bachman, R.E., 1995, 'Interpretation of Instrumental Building Codes,' *Proceedings, SEAOC Annual Convention*, Structural Engineering Association of California, Sacramento, California.
- Ebeling, R.M., 1992, *Introduction to the Computation of Response Spectrum for Earthquake Loading*, Technical Report ITL-94-4, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Ebeling, R.M., and Morrison, E.E. Jr., 1992, *The seismic Design of Waterfront Retaining Structures*, U.S. Army Technical Report ITL-92-11, U.S. Navy Technical Report NCEL TR-939, Information Technology Laboratory, Department of the Army, Waterways Experiment Station, Vicksburg, Mississippi.
- EERC, 1995, *Seismological and Engineering Aspects of the 1995 Hyogoken-Nanbu (Kobe) Earthquake*, Report No. EERC 91/15, Earthquake Engineering Research Center, Berkeley, California.
- EERI, 1996, Northridge Earthquake Reconnaissance Report, *Earthquake Spectra*, Earthquake Engineering Research Institute, Oakland, California, Vol. 2, Supp. C.
- EERI, 1989, 'The Basics of Seismic Risk Analysis,' Earthquake Engineering Research Institute Committee on Seismic Risk, *Earthquake Spectra*, v. 5, p. 675-702.
- Egan, J.A., 1994, *Overview of seismic upgrading at the Port of Oakland*, Second Seismic Short Course on Evaluation and Mitigation of Earthquake Induced Liquefaction Hazards, San Francisco State University.
- EPRI, 1988, *Seismic Hazard Methodology for the Central and Eastern United States*, EPRI Report NP-4726, vols. 1-10.
- EPRI, 1989, *Methods for Estimating Maximum Earthquakes in the Central and Eastern United States – Project RP-25556-12*, Draft Report Prepared for Seismicity Owners Group and Electric Power Research Institute by Geomatrix Consultants, San Francisco, California, and Center of Earthquake Research and Information, Memphis, Tennessee.
- EPRI, 1993, *Guidelines for Determining Design Basis Ground Motions*, Electric Power Research Institute Report TR-102293, v. 1-4.
- Fajfar, P., and Fischinger, M., 1988, 'N2-A Method for Non-Linear Seismic Analyses of Regular Structures,' *Proceedings of the Ninth World Conference on Earthquake Engineering*, Tokyo-Kyoto, Japan.
- Fajfar, P., and Krawinkler, H., (Editors), 1992, *Nonlinear Seismic Analyses and Design of Reinforced Concrete*

- Buildings, Elsevier Applied Science, London and New York.
- Ferritto, J.M., 1994, *Procedures for Computing Site Seismicity*; Naval Facilities Engineering Service Center Technical Report TR-2016-SHR.
- Ferritto, J.M., 1997a, *Criteria for Seismic Ground Motion for Essential Structures*; Naval Facilities Engineering Service Center Technical Report TR-2076-SHR.
- Ferritto, J.M., 1997b, *Seismic Design Criteria for Soil Liquefaction*; Naval Facilities Engineering Services Center Technical Report TR-2077-SHR.
- Franklin, A.G., and Chang, F.K., 1977, *Earthquake Resistance of Earth And Rock-Fill Dams: Permanent Displacements of Earth Embankments by Newmark Sliding Block Analysis*. Miscellaneous Paper S-71-17, Report 5. U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, Mississippi.
- Gazetas, G., 1991, *Foundation Vibrations, Foundation Engineering Handbook*, edited by Fang, H.Y., Van Nostrand Reinhold, New York, New York, pp. 553-593.
- Gohn, G.S., Weems, R.E., Obermeier, S.F., and Gelinas, R.L., 1984, *Field Studies of Earthquake-Induced Liquefaction-Flowage Features in the Charleston, South Carolina Area*, Preliminary Report: U.S. Geological Survey, Open File Report 84-670, 26p.
- Gomberg, J., and Ellis, M., 1994, "Topography and Tectonics of the Central New Madrid Seismic Zone: Results of Numerical Experiments Using a Three-Dimensional Boundary Element Program," *Journal of Geophysical Research*, v. 99, no. 20, p. 299-310.
- Goodman, R.E., and Seed, H.B., 1966, "Earthquake-Induced Displacements in Sand Embankments," *Journal of the Soil Mechanics and Foundations Division*, American Society of Civil Engineers, v. 92, no. SM2, p. 125-146.
- Gulkan, P., and Sozen, M. A., 1974, "Inelastic Response of Reinforced Concrete Structures to Earthquake Motions," *Journal of the American Concrete Institute*, Detroit, Michigan.
- Gutenberg, B., and Richter, C.F., 1954, *Seismicity of the Earth and Associated Phenomena*, 2nd ed., Princeton University Press, Princeton, New Jersey, 310 p.
- Gutenberg, B., and Richter, C.F., 1956, "Earthquake Magnitude, Intensity, Energy, and Acceleration"; *Bulletin of the Seismological Society of America*, v. 46, no. 2, p. 105-145.
- Hamada, M., Yasuda, S., Isoyama, R., and Emoto, K., 1986, *Study on Liquefaction Induced Permanent Ground Displacements*, Report for the Association for the Development of Earthquake Prediction.
- Hamburger, R. O., and McCormick, D. L., 1994, "Implications of the January 17, 1994, Northridge Earthquake on Tiltup and Masonry Buildings with Wood Roofs," *Proceedings of the Structural Engineers Association of California 63rd Annual Convention*, SEAOC, Sacramento, California.
- Hanks, T.C., and Kanomori, H., 1979, "A Moment Magnitude Scale," *Journal of Geophysical Research*, v. 84, p. 2348-2350.
- Hanna, A.M., 1981, "Foundations on Strong Sand Overlying Weak Sand," *Journal of the Geotechnical Engineering Division*, American Society of Civil Engineers, v. 107, no. GT7, p. 915-927.
- Hanna, A.M. and Meyerhof, G.G., 1980, "Design Charts for Ultimate Bearing Capacity of Foundations on Sand Overlying Soft Clay," *Canadian Geotechnical Journal*, v. 17, p. 300-303.
- Harder, L.F., 1997, "Application of the Becker Penetration Test for Evaluating the Liquefaction Potential of Gravelly Soils," *Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils, Salt Lake City, Utah*, NCEER-97-0022, p. 129-148.
- Heaton, T. H., Hall, J.F., Wald, D.J., and Halling, M.W., 1995, "Response of High Rise and Base Isolated Buildings to a Hypothetical M_w 7.0 Blind Thrust Earthquake," *Science*, Vol. 267, pp. 206-211.
- Heaton, T. H., and Hartzell, S. H., 1994, "Earthquake Ground Motions in the Near-source Region," *Proceedings: Seminar on New Developments in Earthquake Ground Motion Estimation and Implications for Engineering Design Practice*, report No. ATC-35-1, Applied Technology Council, Redwood City, California, pp. 8-1-8-28.
- Hynes-Griffin, M.E., and Franklin, A.G., 1984, *Rationalizing the Seismic Coefficient Method*, Miscellaneous Paper GL-84-13, U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, Mississippi.

- Ishihara, K., and Yoshimine, M., 1992, "Evaluation of Settlements in Sand Deposits Following Liquefaction During Earthquakes, Soils and Foundations," *Japanese Society of Soil Mechanics and Foundation Engineering*, v. 32, no. 1, March, p. 173-188.
- Jeng, V., Kasai, K., and Maison, B.F., 1992, "A Spectral difference Method to Estimate building Separations to Avoid Pounding," *Earthquake Spectra*, Earthquake Engineering Research Institute, Oakland, California, Vol. 8, No.2.
- Johnston, A.C., 1996, 'Seismic Moment Assessment of Earthquakes in Stable Continental Regions –III. New Madrid 1811-1812, Charleston 1886, and Lisbon 1755,' *Geophysical Journal International*, v. 126, pp. 314-344.
- Johnston, A.C, Coppersmith, K.J., Kanter, L.R., and Cornell, C.A., 1994, *The Earthquakes of Stable Continental Regions, Volume 1: Assessment of Large Earthquake Potential*, Final Report Submitted to Electric Power Research Institute (EPRI), TR-102261-V1.
- Kasai, K., Maison, B.F., and Patel, D.J., 1990, "An Earthquake Analyses for Buildings Subjected to a Type of Pounding," *Proceedings of the Fourth U.S. National Conference on Earthquake Engineering* Earthquake Engineering Research Institute, Oakland, California.
- Krawinkler, H., 1994, "New Trends in Seismic Design" *Proceedings of the Tenth European Conference in Earthquake Engineering*, Vienna, Austria.
- Krawinkler, H., and Nassar, A.A., 1992, "Seismic Design Based on Ductility and Cumulative Damage Demands and Capacities," *Nonlinear Seismic Analyses and Design of Reinforced Concrete Buildings*, Edited by Fajfar, P., and Krawinkler, H., Elsevier Applied Science, London and New York.
- Krinitzky, E.L., and Chang, F.K., 1975, *Earthquake Intensity and the Selection of Ground Motion for Seismic Design*, Report No. 4 in the Series, State-of-the-Art for Assessing Earthquake Hazards in the United States, U.S. Army Engineer Waterways Experiment Station, Miscellaneous Paper S-73-1.
- Kulkarni, R.B., Youngs, R.R., and Coppersmith, K.H., 1984, "Assessment of Confidence Intervals for Results of Seismic Hazard Analysis," *Proceedings of the Eighth World Conference on Earthquake Engineering*, San Francisco, California, v. 1, p. 263-270.
- Lagorio, H.J., 1990, *Earthquakes, An Architect's Guide to Nonstructural Seismic Hazards*, John Wiley and Sons, Inc., New York, New York.
- Lawson, R.S., Vance, V., and Krawinkler, H., 1994, "Nonlinear Static Push-Over Analyses—Why, When, and" *Proceedings of the Fifth U.S. Conference in Earthquake Engineering*, Earthquake Engineering Research Institute, Oakland, California. Vol. 1.
- Ledbetter, R.H., 1985, *Improvement of Liquefiable Foundation Conditions Beneath Existing Structures*, Technical Report REMR-GT-2, U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, Mississippi.
- Lin, J.S., and Whitman, R.V., 1986, "Earthquake-Induced Displacements Of Sliding Blocks," *Journal of Geotechnical Engineering Division*, American Society of Civil Engineers, v. 112, no. 1, p. 44-59.
- Mahaney et.al., 1993, "The Capacity Spectrum Method for Evaluating Structural Response during the Loma Prieta Earthquake," *Proceedings of the National Earthquake Conference*, Memphis, Tennessee.
- Makdisi, F.I. and Seed, H.B., 1978, "Simplified Procedure for Estimating Dam and Embankment Earthquake-Induced Deformations," *Journal of the Geotechnical Engineering Division*, American Society of Civil Engineers, v. 104, no. GT7, July, p. 849-867.
- Marcuson, W.F. III, Hynes, M.E., and Franklin, A.G., 1990, "Evaluation and Use Of Residual Strength In Seismic Safety Analysis Of Embankments," *Earthquake Spectra*, Earthquake Engineering Research Institute, v. 6, n. 3, p. 529-572.
- Mehrain, M., and Graf, W., 1990, "Dynamic Analysis of Tilt-Up Buildings," *Proceedings of the Fourth U.S. National Conference on Earthquake Engineering*, Palm Springs, California.
- Meyerhof, G.G., 1974, "Ultimate Bearing Capacity of Footings in Sand Layer Overlying Clay," *Canadian Geotechnical Journal*, v. 11, no. 2, p. 223-229.
- Miranda, E., 1993, "Evaluation of Site-Dependent Inelastic Seismic Design Spectra," *Journal of the Structural Engineering Division*, American Society of Civil Engineers, New York, New York, Vol. 119, No. 5, pp. 1319-1338.

- Miranda, E., and Bertero, V.V., 1994, 'Evaluation of Strength Reduction Factors for Earthquake-Resistant Design,' *Earthquake Spectra*, Earthquake Engineering Institute, Oakland, California, Vol. 10, No.2.
- Mitchell, J.K., 1981, "Soil Improvement: State-of-the-Art, State-of-the-Art Report," *Session 12, Tenth International Conference on Soil Mechanics and Foundation Engineering*, Stockholm, Sweden, June 15-19.
- Mitchell, J.K., Cooke, H.G., and Schaeffer, J.A., 1998, 'Design Considerations in Ground Improvement for Seismic Risk Mitigation,' *Geotechnical Earthquake Engineering and Soil Dynamics III*, Geotechnical Special Publication, ASCE, Vol. 1, pp. 580-613.
- Moehle, J.P., 1992, 'Displacement-Based Design of RC Structures Subjected to Earthquakes,' *Earthquake Spectra*, Earthquake Engineering Research Institute, Oakland, California, Vol. 8, No.3, pp. 403-428.
- MSS, 1993, *Pipe Hangers and Supports: Materials, Design and Manufacture*, SP-58, Manufacturers Standardization Society of the Valve and Fitting Industry, Vienna, Virginia.
- Nassar, A.A., and Krawinkler, H., 1991, *Seismic Demands for SDOF and MDOF Systems*, Report No. 95, John A. Blume Earthquake Engineering Center, Department of Civil Engineering, Stanford University, Stanford, California.
- Nassar, A.A., Krawinkler, H., and Osteraas, J.D., 1992, 'Seismic Design Based on Strength and Ductility' *Proceedings of the tenth World Conference on Earthquake Engineering*, Madrid, Spain, Vol. 10, pp.5861-5866.
- National Research Council, 1985, *Liquefaction of Soils During Earthquakes*, Committee on Earthquake Engineering, Commission on Engineering and Technical Systems, National Academy Press, Washington, D.C.
- National Research Council, 1988, *Probabilistic Seismic Hazard Analysis*, National Academy Press, Washington, D.C.
- NAVFAC, 1982a, *Soil Mechanics: Naval Facilities Engineering Command Design Manual*, NAVFAC DM-7.1, U.S. Department of the Navy, Alexandria, Virginia.
- NAVFAC, 1982b, *Foundation and Earth Structures: Naval Facilities Engineering Command Design Manual*, NAVFAC DM-7.2, U.S. Department of the Navy, Alexandria, Virginia.
- NAVFAC, 1983, *Soil Dynamics Deep Stabilization and Special Geotechnical Construction*, NAVFAC DM-7.3, U.S. Department of the Navy, Alexandria, Virginia.
- NELMA, 1991, *National Grading Rules for Northeastern Lumber*, Northeastern Lumber Manufacturers Association, Cumberland Center, Maine.
- Newmark, N.M., 1965, 'Effect of Earthquake on Dams and Geotechnique', Vol. 15, pp.139-160.
- Newmark, N.M. and Rosenbluth, E., 1971, *Fundamentals of Earthquake Engineering*, Prentice-Hall, Englewood Cliffs, New Jersey.
- NFPA, 1996, *Standard for the Installation of Sprinkler Systems*, NFPA-13, National Fire Protection Agency, Quincy, Massachusetts.
- NFPA, latest edition, NFPA-11, NFPA-12, NFPA-12A, NFPA-12B, NFPA-14, NFPA-16, NFPA-16A, NFPA-17, NFPA-17A, National Fire Protection Agency, Quincy, Massachusetts.
- NIST, 1992, U.S. Product Standard PS2-92, *Performance Standard for Wood -Based Structural Use Panels*, National Institute of Standards and Technology, Washington, D.C.
- NIST, 1995, U.S. Product Standard PS1-95, *Construction & Industrial Plywood with Typical APA Trademarks*, National Institute of Standards and Technology, Washington, D.C.
- NIST, 1986, Voluntary Product Standard P20-70, *American Softwood Lumber Standard*, National Institute of Standards and Technology, Washington, D.C.
- Noson, L.L., Qamar, A., and Thorsen, G.W., 1988, *Washington State Earthquake Hazards*, Washington Division of Geology and Earth Resources, Information Circular 85, 77 p.
- Obermeier, S.F., 1989, *The New Madrid Earthquakes: An Engineering-Geologic Interpretation of Relict Liquefaction Features*, U.S. Geological Survey Professional Paper 1336-B, 114p.
- Obermeier, S.F., Jacobson, R.B., Powars, D.S., Weems, R.E., Hallbick, D.C., Gohn, G.S., and Markewich, H.W., 1986, "Holocene and Later Pleistocene(?) Earthquake-Induced Sandblows in Coastal South Carolina," *Proceedings, Third U.S. National Conference on Earthquake Engineering*, v. 1, p. 197-208.

- Olsen, R.S, 1997, "Cyclic Liquefaction Based on the Cone Penetrometer Test," *Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils, Salt Lake City, Utah*, NCEER-97-0022, p. 225-276.
- Osteraas, J.D., and Krawinkler, J., 1990, *Strength and Ductility Considerations in Seismic Design*, Report No. 90, John A. Blume Earthquake Engineering Center, Department of Civil Engineering, Stanford University, Stanford, California.
- Pauley, T., and Priestly, M. J. N., *Seismic Design of Reinforced Concrete and Masonry Buildings*, John Wiley & Sons, New York, New York.
- Pender, M.J., 1993, "A Seismic Pile Foundation Design" *Bulletin of the New Zealand National Society for Earthquake Engineering*, Vol. 26, No.1, pp. 49-161.
- Popov, E., Yang, T., and Grigorian, C., 1993, "New directions in Structural Seismic Design," *Earthquake Spectra*, Engineering Research Institute, Oakland, California, Vol. 9, No. 4, pp. 845-875.
- Qi, X., and Moehle, J.P., 1991, *Displacement Design Approach for Reinforced Concrete Structures Subjected to Earthquakes*, Report No. EERC 91/02, Earthquake Engineering Research Center, Berkeley, California.
- Richards, R., Jr., Elms, D.G., and Budhu, M., 1993, "Seismic bearing capacity and settlements of foundations," *Journal of Geotechnical Engineering*, American Society of Civil Engineers, v. 119, n. 4, p. 662-674.
- Richter, C.F., 1958, *Elementary Seismology*, W.H. Freeman & Company, San Francisco, California.
- Robertson, P.K., and Campanella, R.G., 1985, "Liquefaction of Sands Using The CPT," *Journal of Geotechnical Engineering Division*, American Society of Civil Engineers, v. 111, no. GT3, March, p. 384-403.
- Robertson, P.K. and Wride, C.E., 1997, "Cyclic Liquefaction and Its Evaluation Based on the SPT And CPT," *Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils, Salt Lake City, Utah*, NCEER-97-0022, p. 41-87.
- Robertson, P.K., Woeller, D.J., and Finn, W.D.L., 1992, "Seismic Cone Penetration Test for Evaluating Liquefaction Potential Under Cyclic Loading," *Canadian Geotechnical Journal*, v. 29, no. 4, August, p. 686-695.
- SAC, 1995, *Interim Guidelines: Evaluation, Repair, Modification and design of Welded Steel Moment Frame Structures*, Report No. FEMA 267, developed by the SEAOC, ATC, and CUREE Joint Venture (Report No. SAC-95-02) for the Federal Emergency Management Agency, Washington, D.C.
- Sadigh, D., Chang, C.Y., Abrahamson, N. A., Chiou, S. J., and Power, M. S., 1993, "Specifications of Long Period Ground Motions; Updated Attenuation Relationships for Rock Site Conditions and Adjustment Factors for Near-Fault Effects," *Proceedings, Seminar on Seismic Isolation, Passive Energy Dissipation and Active Control*, Report No. ATC-17-1, Applied Technology Council, Redwood City, California.
- Saiidi, M., and Sozen, M. A., 1981, "Simple Nonlinear Seismic Analysis of RC Structures," *Journal of the Structural Engineering Division*, American Society of Civil Engineers, New York, New York.
- Sarma, S.K., 1975, "Seismic stability of earth dams and" *Geotechnique*, v. 25, no. 4, p. 474-761.
- Schwartz, D.P., and Coppersmith, K.J., 1984, "Fault Behavior and Characteristic Earthquakes from the Wasatch and San Andreas Faults," *Journal of Geophysical Research*, v. 89, p. 5681-5698.
- SEAOC, 1995, *Vision 2000, Performance Based Seismic Engineering of Buildings*, Prepared by the Structural Engineers Association of California for the California office of Emergency Services, Sacramento, California.
- SEAOC, 1996, *Recommended Lateral Force Requirements and Commentary*. Prepared by the Seismology Committee of the Structural Engineers Association of California, Sacramento, California.
- Seed, H.B., and De Alba, P., 1986, "Use of SPT and CPT Tests for Evaluating the Liquefaction Resistance of Sands," *Proceedings, INSITU '86, ASCE Spec. Conf. on Use of In Situ Testing in Geotechnical Engineering*, Virginia Tech, Blacksburg, Virginia, Geot. Spec. Publ. No. 6, p. 281-302.
- Seed, R.B., and Harder, L.F., 1990, "SPT-Based Analysis of Cyclic Pore Pressure Generation and Undrained Residual Strength," *Proceedings of the H.B. Seed Memorial Symposium*, v. 2, p. 351-376.

- Seed, H.B., and Idriss, I.M., 1971, "Simplified Procedure for Evaluating Soil Liquefaction Potential," *Journal of the Soil Mechanics and Foundations Division*, American Society of Civil Engineers, v. 97, no. SM9, September, p. 1249-1273.
- Seed, H.B., and Idriss, I.M., 1982, *Ground Motions And Soil Liquefaction During Earthquakes*, Earthquake Engineering Research Institute, Oakland, California, Monograph Series, 134 p.
- Seed, H.B., Idriss, I.M., and Arango, I., 1983, "Evaluation Of Liquefaction Potential Using Field Performance Data," *Journal of the Geotechnical Engineering Division*, American Society of Civil Engineers, v. 109, no. 3, March.
- Seed, H.B., Tokimatsu, K., Harder, L.F., and Chung, R.M., 1985, "Influence Of SPT Procedures In Soil Liquefaction Resistance Evaluations," *Journal of Geotechnical Engineering Division*, American Society of Civil Engineers, v. 111, no. 12, December, p. 1425-1445.
- Seismological Research Letters, 1997, v. 68, no. 1, *Seismological Society of America*.
- Seneviratna, G. D. P. K., 1995, *Evaluation of inelastic MDOF effects for seismic design*, Ph. D. Diss., Department of Civil Engineering, Stanford University, Stanford, California.
- Seneviratna, G. D. P. K., and Krawinkler, H., 1994, "Strength and Displacement Demands for Seismic Design of Structural Walls," *Proceedings of the Fifth U. S. National Conference on Earthquake Engineering*, Chicago, Illinois.
- Sheet Metal Industry Fund of Los Angeles, 1976, *Guidelines for Seismic Restraints of Mechanical Systems*, Los Angeles, California.
- SJI, 1990, *Standard Specification, Load Tables and Weight Tables for Steel Joists and Joist Girders*, Steel Joist Institute, 1990 Edition.
- Silva, W.J., 1997, *Characteristics of Vertical Strong Ground Motions for Applications to Engineering Design*, National Center for Earthquake Engineering Research Workshops, National Representation of Seismic Ground Motion for New and Existing Highway Facilities.
- SMACNA, 1991, *Seismic Restraint Manual Guidelines for Mechanical Equipment, and Appendix E-1993 Addendum*, Sheet Metal and Air Conditioning Contractors National Association, Chantilly, Virginia.
- SMACNA, 1992, *Guidelines for Seismic Restraint of Mechanical Systems and Plumbing Piping Systems*, Sheet Metal Industry Fund of Los Angeles and Plumbing and Piping Industry Council, Sheet Metal and Air Conditioning Contractors National Association, Chantilly, Virginia.
- Sommerville, P., and Graves, R., 1993, "Conditions That Give Rise to Unusually Large Long-Period Ground Motions," *Proceedings, Seminar on Seismic Isolation, Passive Energy Dissipation And Active Control*, Report No. ATC-17-1, Applied Technology Council, Redwood City, California.
- Somerville, P., Smith, N.F., Graves, R.W., and Abrahamson, N.A., 1997, "Modification of Empirical Strong Ground Motion Attenuation Relations to Include the Amplitude and Duration Affects of Rupture Directivity," *Seismological Research Letters*, v. 68, no. 1, p. 199-222.
- SPIB, 1991, *Standard Grading Rules for Southern Pine Lumber*, Southern Pine Inspection Bureau, Pensacola, Florida.
- SSHAC, 1997, *Recommendations for Probabilistic Seismic Hazard Analysis: Guidance on Uncertainty and Use of Experts*, Senior Seismic Hazard Analysis Committee, Prepared for the U.S. Nuclear Regulatory Commission, the U.S. Department of Energy, and the Electric Power Research Institute, v. 1, Report no. NUREG/CR 6372 and UCRL-ID-122160.
- Stark, T.D., and Mesri, G., 1992, "Undrained Shear Strength of Liquefied Sands for Stability Analysis," *Journal of Geotechnical Engineering*, American Society of Civil Engineers, v. 118, no. 11, p. 1727-1747.
- Tinsley, J.C., III, Egan, J.A., Kayen, R.E., Bennett, M.J., Kropp, A., and Holzer, T.L., 1994, *Maps and Descriptions of Liquefaction and Associated Effects - The Loma Prieta, California, Earthquake Of October 17, 1989: in the Loma Prieta, California, Earthquake of October 17, 1989: U.S. Geological Survey Professional Paper 1551-B, Appendix A*.
- Tokimatsu, A.M., and Seed, H.B., 1987, "Evaluation of Settlements in Sands Due to Earthquake Shaking," *Journal of the Geotechnical Division*, American Society of Civil Engineers, v. 113, no. 8, August, p. 681-878.
- Toro, G.R., Abrahamson, N.A., and Schneider, J.F., 1997, "Model of Strong Ground Motions From Earthquakes in Central and Eastern North America, Best Estimates and Uncertainties," *Seismological Research Letters*, v. 68, no. 1, p. 41-57.

- Trifunac, M.D. and Brady, A.G., 1975, "A Study of the Duration of Strong Earthquake Ground Motions," *Bulletin of the Seismological Society of America*, Vol. 65, No. 3, June, pp. 581-626.
- Tuttle, M.P., and Seeber, L., 1989, *Earthquake-Induced Liquefaction in the Northeastern United States: Historical Effects and Geological Constraints: Proceedings, Earthquake Hazards and the Design of Constructed Facilities in the Eastern United States*, K.H. Jacob and C.J. Turkstra (Eds.), June, Annals of the New York Academy of Sciences, v. 558, p. 196-207.
- Uang, Chia-M., 1991, 'Establishing R (or R_w) and C_d Factors for Building Seismic Provisions," *Journal of the Structural Engineering Division*, American Society of Civil Engineers, New York, New York, Vol. 117, No.1. Pp. 19-28.
- Uang, Chia-M., and Maarouf, A., 1992, 'Evaluation of the Displacement Amplification Factor for Seismic Design Codes," *Proceedings of SMIP92, Seminar on Seismological and Engineering Implications of Recent Strong-Motion Data*, California Division of Mines and Geology, Sacramento, California, PP.5-1 to 5-10.
- Uniform Building Code, 1994 Edition, International Conference of Building Officials.
- United States Geological Survey, 1996, *National Seismic Hazard Maps, Documentation June 1996*, Open-File Report 96-532.
- Wallace, J.W., 1995, 'Seismic Design of RC Structural Walls, Part I: New Code Format," *Journal of the Structural Engineering Division*, American Society of Civil Engineers, New York, New York, Vol.121, No.1, pp.99-107.
- Wells, D.L., and Coppersmith, K.J., 1994, "New Empirical Relationships Among Magnitude, Rupture Length, Rupture Width, Rupture Area, and Surface Displacement," *Bulletin of the Seismological Society of America*, v. 84, no. 4, p. 974-1002.
- Wesnousky, S.G., 1986, "Earthquakes, Quaternary Faults, and Seismic Hazards in California," *Journal of Geophysical Research*, v. 91, no. B12, p. 12,587-12,631.
- Wesnousky, S.G., Schweig, E.S., and Pezzopane, S.K., 1989, "Extent And Character of Soil Liquefaction During the 1811-12 New Madrid Earthquakes," *Proceedings, Earthquake Hazards and the Design of Constructed Facilities in the Eastern United States*, K.H. Jacob and C.J. Turkstra (Eds.), June, Annals of the New York Academy of Sciences, v. 558, p. 208-216.
- Wilson, E.L., Der Kiureghian, A., and Bayo, E. P., 1981, "A Replacement for the SRSS Method," *Earthquake Engineering and Structural Dynamics*, Elsevier Applied Science, New York, New York.
- Wilson, R.C., and Keefer, D.K., 1985, *Predicting Areal Limits of Earthquake-Induced Landsliding*, in *Evaluating Earthquake Hazards in the Los Angeles Region--An Earth-Science Perspective*, Professional Paper 1360, U.S. Geological Survey, p. 316-345.
- Wood, S. L., 1990, 'Shear Strength of Low-Rise Reinforced Concrete Walls," *ACI Structural Journal*, American Concrete Institute, Detroit, Michigan, Vol. 87, No.1, pp.99-107.
- Wood, H.O. and Neumann, F., 1931, 'Modified Mercalli Intensity Scale of 1931," *Seismological Society of America Bulletin*, v. 53, no. 5, pp. 979-987.
- Working Group on California Earthquake Probabilities, 1990, *Probabilities of Large Earthquakes in the San Francisco Bay region, California*, U.S. Geological Survey Circular 1053.
- WWPA, 1983, *Western Woods Use Book*, Western Wood Products Association, Portland, Oregon.
- WWPA, 1991, *Western Lumber Grading Rules*, Western Wood Products Association, Portland, Oregon.
- Wyllie, L.A., Chamorro, F., Cluff, L.S., and Niccum, M.R., 1977, "Performance of Banco Central Related to Faulting," *6th World Conference on Earthquake Engineering*, New Delhi, India, v. 7, p. 1-6.
- Yegian, M.K., Marciano, E.A., and Gharaman, V.G., 1991, "Earthquake-Induced Permanent Deformations: Probabilistic Approach," *Journal of Geotechnical Engineering Division*, American Society of Civil Engineers, v. 117, no. 1, p. 35-50.
- Youd, T.L., 1984, 'Geologic Effects-Liquefaction and Associated Ground Failure," *Proceedings of the Geologic and Hydrologic Hazards Training Program*, Open-File Report 84-760, U.S. Geological Survey, Menlo Park, California.
- Youd, T.L., 1989, "Ground Failure Damage to Buildings During Earthquakes," *Foundation Engineering--Current*

Principles and Practices, v. 1, p. 758-770, New York: American Society of Civil Engineers.

Youd, T.L., 1998, *Screening Guide for Rapid Assessment of Liquefaction Hazard at Highway Bridge Sites*, Technical Report MCEER-98-0005, Multidisciplinary Center for Earthquake Engineering Research, pp. 58.

Youd, T.L., and Hoose, S.N., 1978, *Historic Ground Failures in Northern California Triggered by Earthquakes*, Professional Paper 993, U.S. Geological Survey, 177 p.

Youd, T.L. and Idriss, I.M., 1997, *Proceedings of the Nceer Workshop on Evaluation of Liquefaction Resistance of Soils*, Salt Lake City, Utah, NCEER-97-0022, p. 276.

Youd, T. L., and Perkins, D. M., 1978, "Mapping Liquefaction Induced Ground Failure Potential," *Journal of the Geotechnical Engineering Division*, American Society of Civil Engineers, New York, New York, Vol. 104, No. GT4, pp.433-446.

Youngs, R.R. and Coppersmith, K.J., 1985a, "Development of a Fault-Specific Recurrence Model," *Earthquake Notes* (abs.), v. 56, no. 1, p 16.

Youngs, R.R., and Coppersmith, K.J., 1985b, "Implications of Fault Slip Rates and Earthquake Recurrence Models to Probabilistic Seismic Hazard Estimates," *Bulletin of the Seismological Society of America*, v. 75, p. 939-964.

Youngs, R.R., Coppersmith, K.J., Power, M.S., and Swan, F.H., 1985, "Seismic Hazard Assessment of the Hanford Region, Eastern Washington State," *Proceedings of the DOE Natural Hazards Phenomena Hazards Mitigation Conference*, Las Vegas, Nevada, October 7-11, p. 169 – 176.

Youngs, R.R., Coppersmith, K.J., Taylor, C.L., Power, M.S., DiSilvestro, L.A., Angell, M.M., Hall, N.T., Wesling, J.R., and Mualchin, L., 1993, "A Comprehensive Seismic Hazard Model for the San Francisco Bay Region," *Proceedings of the Second Conference on Earthquake Hazards in the Eastern San Francisco Bay Area, March 25-29, 1992*, California Division of Mines and Geology.

Youngs, R.R, Swan, F.H., and Power, M.S., 1988, "Use of Detailed Geologic Data in Regional Probabilistic seismic Hazard Analysis –an Example from the Wasatch Front, Utah," in *Earthquake Engineering and soil Dynamics II – Recent Advances in Ground Motion Evaluation*: American Society of Civil Engineering Geotechnical special Publication 20, p 156-172.

Youngs, R.R., Swan, F.H., Power, M.S., Schwartz, D.P., and Green, R.K., 1987, "Probabilistic Analysis of Earthquake Ground Shaking Hazard Along the Wasatch Front, Utah," in *Assessment of Regional Earthquake Hazards and Risks Along the Wasatch Front, Utah*, U.S., U.S. Geological Survey Open-File Report 87-585, v. II, p. M-1-100.