

References

ACI 318, 1999, *Building Code Requirements for Reinforced Concrete*, American Concrete Institute, Detroit, Michigan.

ACI 530/ASCE 5/TMS 402, 1999, *Masonry Standards Joint Committee (MSJC), Building Code Requirements for Masonry Structures*, American Concrete Institute, Detroit, Michigan; American Society of Civil Engineers, Reston, Virginia; and The Masonry Society, Boulder, Colorado.

ACI 530.1/ASCE 6/TMS 602, 1999, *Masonry Standards Joint Committee (MSJC), Specification for Masonry Structures*, American Concrete Institute, Detroit, Michigan; American Society of Civil Engineers, Reston, Virginia; and The Masonry Society, Boulder, Colorado.

AISC, 1993, *Load and Resistance Factor Design Specification for Structural Steel Buildings (LRFD)*, American Institute of Steel Construction, Chicago, Illinois.

AISC, 1997, *Seismic Provisions for Structural Steel Buildings*, with Supplement No. 1 dated 1999, American Institute of Steel Construction, Chicago, Illinois.

ASCE 7, 1998, *Minimum Design Loads for Buildings and Other Structures*, American Society of Civil Engineers, Reston, VA.

ASCE 8, 1990, *Specification for the Design of Cold-Formed Steel Stainless Steel Structural Members*, American Society of Civil Engineers, Reston, Virginia.

ASCE 16, 1996, *Standard for Load and Resistance Factor Design (LRFD) for Engineered Wood Construction*, AF&PA/ASCE Standard No. 16-95, American Society of Civil Engineers, New York, New York.

ASTM A36/A36M-00, 2000, *Standard Specification for Carbon Structural Steel*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM A242/A242M-00, 2000, *Standard Specification for High-Strength Low-Alloy Structural Steel*, American

Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM A307-00, 2000, *Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM A370 -97a, 1997, *Standard Test Methods and Definitions for Mechanical Testing of Steel Products*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM A416/A416M-99, 1999, *Standard Specification for Steel Strand, Uncoated Seven-Wire for Prestressed Concrete*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM A421/A421M-98a, 1998, *Standard Specification for Uncoated Stress-Relieved Steel Wire for Prestressed Concrete*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM A572/A572M-89, 1989 (formerly A441/A441M), *Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM A615/A615M-00, 2000, *Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM A722/A722M-98, 1998, *Standard Specification for Uncoated High-Strength Steel Bar for Prestressing Concrete*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM A913/A913M-00, 2000, *Standard Specification for High-Strength Low-Alloy Steel Shapes of Structural Quality, Produced by Quenching and Self-Tempering Process (QST)*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM A972/A972M-00, 2000, *Standard Specification for Fusion-Bonded Epoxy-Coated Pipe Piles*, American

References

Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM C39/C39M-99, 1999, *Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM C42/C42M-99, 1999, *Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM C597-97, 2000, *Standard Test Method for Pulse Velocity through Concrete*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM C1072-99, 1999, *Standard Test Method for Measurement of Masonry Flexural Bond Strength*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM C1196-92, 1997, *Standard Test Method for In Situ Compressive Stress Within Solid Unit Masonry Estimated Using Flatjack Measurements*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM C1197-92, 1997, *Standard Test Method for In Situ Measurement of Masonry Deformability Properties Using Flatjack Method*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM C496-96, 1996, *Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM D245-00, 1992, *Standard Methods for Establishing Structural Grades and Related Allowable Properties for Visually Graded Lumber*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM D1586-99, 1999, *Standard Test Method for Penetration Test and Split-Barrel Sampling of Soils*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM D5457-93, 1998, *Standard Specification for Computing the Reference Resistance of Wood-Based*

Materials and Structural Connections for Load and Resistance Factor Design, American Society of Testing and Materials, West Conshohocken, Pennsylvania.

ASTM E139-00, 2000, *Standard Test Methods for Conducting Creep, Creep-Rupture, and Stress-Rupture Tests of Metallic Materials*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM E488-96, 1996, *Standard Test Methods for Strength of Anchors in Concrete and Masonry Elements*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM E518-00, 2000, *Standard Test Measures for Flexural Bond Strength of Masonry*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ASTM E519-81, 1999, *Standard Test Method for Diagonal Tension (Shear) in Masonry Assemblages*, American Society for Testing and Materials, West Conshohocken, Pennsylvania.

ATC, 1997, *Guidelines for the Seismic Rehabilitation of Buildings: Example Applications*, prepared by the Applied Technology Council, for the Building Seismic Safety Council and the Federal Emergency Management Agency (FEMA Publication No. 276), Washington, D.C.

AWS D1.1, 2000, *Structural Welding Code—Steel*, American Welding Society, Miami, Florida.

AWS D1.3, 1998, *Structural Welding Code—Sheet Steel*, American Welding Society, Miami, Florida.

AWWA D100, 1996, *Welded Steel Tanks for Water Storage*, American Water Works Association, Denver, Colorado.

FEMA 310, 1998, *Handbook for the Seismic Evaluation of Buildings—A Prestandard*, prepared by the American Society of Civil Engineers for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 310).

IBC, 2000, *International Building Code*, International Code Council, Falls Church, Virginia.

References

NBC, 1999, *National Building Code*, Building Officials and Code Administrators International, Country Club Hills, Illinois.

PS 1, 1995, *U.S. Product Standard PS 1-95, Construction & Industrial Plywood with Typical APA Trademarks*, National Institute of Standards and Technology, Washington, D.C.

PS 2, 1992, *U.S. Product Standard PS 2-92, Performance Standard for Wood-Based Structural Use Panels*, National Institute of Standards and Technology, Washington, D.C.

SBC, 1999, *Standard Building Code*, Southern Building Code Congress International, Birmingham, Alabama.

SJI, 1990, *Standard Specification, Load Tables and Weight Tables for Steel Joists and Joist Girders*, Steel Joist Institute, Myrtle Beach, South Carolina.

UBC, 1997, *Uniform Building Code*, International Conference of Building Officials, Whittier, California.

Commentary References

AAMA 501.4, 2000, *Recommended Static Test Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstory Drift*, American Architectural Manufacturers Association, Schaumburg, Illinois.

ABK, 1984, *Methodology for Mitigation of Seismic Hazards in Existing Unreinforced Masonry Buildings*, (Topical Report 08), ABK joint venture, El Segundo, California.

ABK, 1991, *Methodology for Mitigation of Seismic Hazards in Existing Unreinforced Masonry Buildings: Wall Testing, Out-of-Plane*, (Topical Report 04).

ACI 437R-91, 1991, *Strength Evaluation of Existing Concrete Buildings*, American Concrete Institute, Detroit, Michigan.

AF&PA ASD, 1997, *ASD Manual for Engineered Wood Construction*, including supplements and guidelines, American Forest & Paper Association, Washington, D.C.

AF&PA LRFD, 1996, *LRFD Manual for Engineered Wood Construction*, including supplements and guidelines, American Forest & Paper Association, Washington, D.C.

Al-Hussaini, T., Zayas, V., and Constantinou, M. C., 1994, *Seismic Isolation of Multi-Story Frame Structures using Spherical Sliding Isolation Systems*, Report No. NCEER-94-0007, National Center for Earthquake Engineering Research, State University of New York at Buffalo, New York.

APA, 1995, *Design Capacities of APA Performance Rated Structural-Use Panels*, Technical Note N375B, American Plywood Association, Tacoma, WA.

APA, 1997, *Plywood Design Specification*, American Plywood Association, Tacoma, Washington.

API 650, 1998, 10th Edition, *Welded Steel Tanks for Oil Storage*, American Petroleum Institute, Washington, D.C.

ASCE 4, 1986, *Seismic Analysis of Safety-related Nuclear Structures*, American Society of Civil Engineers, Reston, VA.

ASCE 11, 1990, *Standard Guideline for Structural Condition Assessment of Existing Buildings*, American Society of Civil Engineers, New York, New York.

ASHRAE, 1995, *Applications Manual* Chapter 50, American Society of Heating, Refrigeration, and Air Conditioning Engineers, Atlanta, Georgia.

ASME B31, 2000, *Code for Pressure Piping*, American Society of Mechanical Engineers, New York, New York.

ASME B31.1, 2000, *Power Piping*, American Society of Mechanical Engineers, New York, New York.

ASME B31.4, 2000, *Liquid Transportation Systems for Hydrocarbons, Liquid Petroleum Gas, Anhydrous Ammonia, and Alcohols*, American Society of Mechanical Engineers, New York, New York.

ASME B31.5, 2000, *Refrigeration Plant*, American Society of Mechanical Engineers, New York, New York.

ASME B31.8, 2000, *Gas Transmission and Distribution Piping Systems*, American Society of Mechanical Engineers, New York, New York.

ASME B31.9, 2000, *Building Services Piping*, American Society of Mechanical Engineers, New York, New York.

ASME B31.11, 2000, *Slurry Transportation Systems*, American Society of Mechanical Engineers, New York, New York.

ASME B31.37, 2000, *Chemical Plant and Refinery Piping*, American Society of Mechanical Engineers, New York, New York.

ATC-7, 1981, *Guidelines for the Design of Horizontal Wood Diaphragms*, Applied Technology Council, Redwood City, California.

ATC-40, 1996, *Seismic Evaluation and Retrofit of Concrete Buildings*, prepared by the Applied Technology Council (Report No. ATC-40), Redwood City, California for the California Seismic Safety Commission (Report No. SSC 96-01).

ATC-282, 1993, *Proceedings of the Workshop to Resolve Seismic Rehabilitation Subissues—July 29 and 30, 1993; Development of Guidelines for Seismic Rehabilitation of Buildings, Phase I: Issues Identification and Resolution*, Applied Technology Council, Redwood City, California. (Report No. ATC-28-2).

References

- AWWA D100, 1996, *Welded Steel Tanks for Water Storage*, American Water Works Association, Denver, Colorado.
- Ayres, J. M., and Sun, T. Y., 1973a, "Nonstructural Damage to Buildings, The Great Alaska Earthquake of 1964," *Engineering*, National Academy of Sciences, Washington, D.C.
- Ayres, J. M., and Sun, T. Y., 1973b, "Nonstructural Damage," *The San Fernando, California Earthquake of February 9, 1971, Vol. 1B*, National Oceanic and Atmospheric Administration, Washington, D.C.
- Bartlett, S. F., and Youd, T. L., 1992, "Empirical Prediction of Lateral Spread Displacement," edited by Hamada, M., and O'Rourke, T. D., *Proceedings of the Fourth Japan-U.S. Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures for Soil Liquefaction*, Report No. NCEER-92-0019, National Center for Earthquake Engineering Research, Buffalo, New York, Vol. I, pp. 351–365.
- Baziar, M. H., Dobry, R., and Elgamal, A-W.M., 1992, *Engineering Evaluation of Permanent Ground Deformations Due to Seismically-Induced Liquefaction*, Report No. NCEER-92-0007, National Center for Earthquake Engineering Research, Buffalo, New York.
- Bouwkamp, J. G., and Meehan, J. F. (1960). "Drift Limitations Imposed by Glass," *Proceedings of the Second World Conference on Earthquake Engineering*, Tokyo, Japan, pp. 1763-1778.
- Bowles, J.E., 1988, *Foundation Analysis and Design*, Fourth Edition, McGraw-Hill, New York, NY.
- Bracci, J. M., Kunnath, S. K., and Reinhorn, A. M., 1995, "Simplified Seismic Performance and Retrofit Evaluation," submitted to the *Journal of the Structural Division*, American Society of Civil Engineers, New York, New York.
- BSSC, 2000, *NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures*, 2000 Edition, prepared by the Building Seismic Safety Council for the Federal Emergency Management Agency, Washington, D.C.
- California Governor's Board of Inquiry on the 1989 Loma Prieta Earthquake, 1990, *Competing Against Time*, report to Governor George Deukmejian, State of California, Office of Planning and Research, Sacramento, California.
- Calvi, G. M., 1988, "Correlation between Ultrasonic and Load Tests on Old Masonry Specimens," *Proceedings of Eighth International Brick/Block Masonry Conference*, Elsevier Applied Science, Essex, England, pp. 1665–1672.
- Cho, D. M., and Retamal, E., 1993, "The Los Angeles County Emergency Operations Center on High-Damping Rubber Bearings to Withstand an Earthquake Bigger than the Big One," *Proceedings of Seminar on Seismic Isolation, Passive Energy Dissipation, and Active Control*, Applied Technology Council Report No. ATC-17-1, Redwood City, California, pp. 209–220.
- CISCA, 1990, *Recommendations for Direct-Hung Acoustical and Lay-in Panel Ceilings*, Seismic Zones 3-4, Ceilings and Interior Systems Construction Association, Deerfield, Illinois.
- CISCA, 1991, *Recommendations for Direct-Hung Acoustical and Lay-in Panel Ceilings*, Seismic Zones 0-2, Ceilings and Interior Systems Construction Association, Deerfield, Illinois.
- CRSI, 1981, *Evaluation of Reinforcing Steel Systems in Old Reinforced Concrete Structures*, Concrete Reinforcing Steel Institute, Chicago, Illinois.
- CSI, 1994, *ETABS (Version 6.0): Linear and Nonlinear, Static and Dynamic Analysis and Design of Building Systems*, Computers and Structures, Inc., Berkeley, California.
- Drake, R. M., and Bachman, R. E., 1995, "Interpretation of Instrumental Building Seismic Data and Implications for Building Codes," *Proceedings, SEAOC Annual Convention*, Structural Engineering Association of California, Sacramento, California.
- Eberhard, M. O., and Sozen, M. A., 1993, "Behavior-Based Method to Determine Design Shear in Earthquake-Resistant Walls," *Journal of the Structural Division*, American Society of Civil Engineers, New York, New York, Vol. 119, No. 2, pp. 619–640.
- EERI, 1995, "In Wait for the Next One," *Proceedings of the Fourth Japan/U.S. Workshop on Urban Earthquake Hazard Reduction*, Earthquake Engineering Research Institute and Japan Institute of Social Safety Science, sponsors, Osaka, Japan.

References

Epperson, G. S., and Abrams, D. P., 1989, "Nondestructive Evaluation of Masonry Buildings, Advanced Construction Technology Center," Report No. 89-26-03, College of Engineering, University of Illinois at Urbana, Illinois.

Fajfar, P., and Fischinger, M., 1988, "N2—A Method for Non-Linear Seismic Analysis of Regular Structures," *Proceedings of the Ninth World Conference on Earthquake Engineering*, Tokyo-Kyoto, Japan.

Feilden, Bernard M., 1987, *Between Two Earthquakes: Cultural Property in Seismic Zones*, Getty Conservation Institute, Marina del Rey, California.

FEMA 74, 1994, *Reducing the Risks of Nonstructural Earthquake Damage, A Practical Guide*, Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 74).

FEMA 154, 1988, *Rapid Visual Screening of Buildings for Potential Seismic Hazards: A Handbook*, prepared by the Applied Technology Council (Report No. ATC-21, 1988) for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 154).

FEMA 156, *Typical Costs for Seismic Rehabilitation of Buildings, Second Edition, Volume 1: Summary*, prepared by the Hart Consultant Group for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 156).

FEMA 157, *Typical Costs for Seismic Rehabilitation of Buildings, Second Edition, Volume II: Supporting Documentation*, prepared by the Hart Consultant Group for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 157).

FEMA 172, 1992, *NEHRP Handbook of Techniques for the Seismic Rehabilitation of Existing Buildings*, prepared by the Building Seismic Safety Council for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 172).

FEMA 178, 1992, *NEHRP Handbook for the Seismic Evaluation of Existing Buildings*, prepared by the Building Seismic Safety Council for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 178).

FEMA 222A, 1995, *NEHRP Recommended Provisions for Seismic Regulations for New Buildings, 1994 Edition, Part 1: Provisions and Part 2: Commentary*, prepared by the Building Seismic Safety Council for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication Nos. 222A and 223A).

FEMA 237, 1992, *Development of Guidelines for Seismic Rehabilitation of Buildings, Phase I: Issues Identification and Resolution*, prepared by the Applied Technology Council for the Federal Emergency Management Agency, Washington, D.C., (FEMA Publication No. 237).

FEMA 273, 1997, *NEHRP Guidelines for the Seismic Rehabilitation of Buildings*, prepared by the Building Seismic Safety Council for the Federal Emergency Management Agency, 1997, Washington, D.C. (FEMA Publication No. 273).

FEMA 274, 1997, *NEHRP Commentary on the Guidelines for Seismic Rehabilitation of Buildings*, prepared by the Building Seismic Safety Council for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 274).

FEMA 275, *Planning for Seismic Rehabilitation: Societal Issues*, prepared by VSP Associates for the Building Seismic Safety Council and Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 275).

FEMA 276, 1997, *Guidelines for the Seismic Rehabilitation of Buildings: Example Applications*, prepared by the Applied Technology Council for the Building Seismic Safety Council and the Federal Emergency Management Agency, Washington, D.C., (FEMA Publication No. 276).

FEMA 302, 1997, *NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures, 1997 Edition, Part 1: Provisions and Part 2: Commentary*, prepared by the Building Seismic Safety Council for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication Nos. FEMA 302 and 303).

FEMA 306, 1998, *Evaluation of Earthquake-Damaged Concrete and Masonry Wall Buildings—Basic Procedures Manual*, prepared by the Applied Technology Council (ATC-43 Project), for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 306).

References

- FEMA 307, 1998, *Evaluation of Earthquake-Damaged Concrete and Masonry Wall Buildings—Technical Resources*, prepared by the Applied Technology Council (ATC-43 Project), for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 307).
- FEMA 308, 1998, *Repair of Earthquake Damaged Concrete and Masonry Wall Buildings*, prepared by the Applied Technology Council (ATC-43 Project), for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 308).
- FEMA 310, 1998, *Handbook for the Seismic Evaluation of Buildings—A Prestandard*, prepared by the American Society of Civil Engineers for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 310).
- FEMA 350, 2000, *Recommended Seismic Design Criteria for Moment-Resisting Steel Frame Structures*, prepared by the SEAOC, ATC, and CUREE Joint Venture for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 350).
- FEMA 351, 2000, *Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Moment Resisting Steel Structures*, prepared by the SEAOC, ATC, and CUREE Joint Venture for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 351).
- FEMA 355D, 2000, *State of Art Report on Connection Performance*, prepared by the SEAOC, ATC, and CUREE Joint Venture for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 355D)]
- FEMA 355F, 2000, *State of Art Report on Performance Prediction and Evaluation*, prepared by the SEAOC, ATC, and CUREE Joint Venture for the Federal Emergency Management Agency, Washington, D.C. (FEMA Publication No. 355F).
- 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.
- 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, Tokyo, Japan.
- Hamburger, R. O., 1993, "Methodology for Seismic Capacity Evaluation of Steel-Frame Buildings with Infill Unreinforced Masonry," *Proceedings of 1993 National Earthquake Conference*, Central U.S. Earthquake Consortium, Memphis, Tennessee, Vol. II, pp. 173-191.
- Hanna, A. M., 1981, "Foundations on Strong Sand Overlying Weak Sand," *Journal of the Geotechnical Engineering Division*, American Society of Civil Engineers, New York, New York, Vol. 107, No. GT7, pp. 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*, Vol. 17, pp. 300-303.
- Hoover, C. A., 1992, *Seismic Retrofit Policies: An Evaluation of Local Practices in Zone 4 and Their Application to Zone 3*, Earthquake Engineering Research Institute, Oakland, California.
- Housner, G. W., 1963, "The Behavior of Inverted Pendulum Structures During Earthquakes," *Bulletin of the Seismological Society of America*, Vol. 53, No. 2, pp. 403-417.
- 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*, Vol. 32, No. 1, pp. 173-188.
- Johnson, J.J., Conoscente, J.P., and Hamburger, R.O., 1992, "Dynamic Analysis of Impacting Structural Systems," *Proceedings of the Tenth World Conference on Earthquake Engineering*, Madrid, Spain.
- Kasai, K., Maison, B.F., and Patel, D.J., 1990, "An Earthquake Analysis for Buildings Subjected to a Type of Pounding," *Proceedings of the Fourth U.S. National Conference of Earthquake Engineering*, Earthquake Engineering Research Institute, Oakland, California.
- Kelly, J. M., 1988, *Base Isolation in Japan*, 1988, Report No. UCB/EERC-88/20, Earthquake Engineering Research Center, University of California, Berkeley, California.

References

- Kelly, J. M., 1993, *Earthquake-Resistant Design with Rubber*, Springer-Verlag, London, United Kingdom.
- Kingsley, G. R., Noland, J. L., and Atkinson, R. H., 1987, "Nondestructive Evaluation of Masonry Structures Using Sonic and Ultrasonic Pulse Velocity Techniques," *Proceedings of Fourth North American Masonry Conference*, The Masonry Society, Boulder, Colorado.
- Lagorio, H. J., 1990, *Earthquakes, An Architect's Guide to Nonstructural Seismic Hazards*, John Wiley & Sons, Inc., New York, New York.
- Lam, I. P., Martin, G. R., and Imbsen, R., 1991, "Modeling Bridge Foundations for Seismic Design and Retrofitting," *Transportation Research Record*, Washington, D.C., No. 1290.
- 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, New York, New York, Vol. 104, No. GT7, pp. 849-867.
- Makris, N. and Roussos, Y., 1998, *Rocking Response and Overturning of Equipment Under Horizontal/Pulse-Type Motions*, Pacific Earthquake Engineering Research Center, Berkeley, CA.
- Meyerhof, G. G., 1974, "Ultimate Bearing Capacity of Footings on Sand Layer Overlying Clay," *Canadian Geotechnical Journal*, Vol. 11, No. 2, pp. 223-229.
- Murota, N., Goda, K., Suzusi, S., Sudo, C., and Suizu, Y., 1994, "Recovery Characteristics of Dynamic Properties of High-Damping Rubber Bearings," *Proceedings of Third U.S.-Japan Workshop on Earthquake Protective Systems for Bridges*, Berkeley, California, 1994, Report No. NCEER 94-0009, National Center for Earthquake Engineering Research, State University of New York at Buffalo, New York, pp. 1-63 to 2-76.
- Nagarajaiah, S., Reinhorn, A., and Constantinou, M. C., 1991, *3D-BASIS: Nonlinear Dynamic Analysis of Three Dimensional Base Isolated Structures*, Report No. NCEER-91-0005, National Center for Earthquake Engineering Research, State University of New York at Buffalo, New York.
- 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.
- NAVFAC, 1986a, *Soil Mechanics: Naval Facilities Engineering Command Design Manual*, NAVFAC DM-7.01, U.S. Department of the Navy, Alexandria, Virginia.
- NAVFAC, 1986b, *Foundation and Earth Structures: Naval Facilities Engineering Command Design Manual*, NAVFAC DM-7.02, U.S. Department of the Navy, Alexandria, Virginia.
- NBS 62, 1977, "Evaluation of Structural Properties of Masonry in Existing Buildings," *Building Science Series 62*, National Bureau of Standards [now National Institute for Science and Technology], U.S. Department of Commerce, Washington, D.C.
- NDS, 1997, *National Design Specification for Wood Construction*, ANSI/AF&PA NDS-1997, American Forest & Paper Association, Washington, D.C.
- Newmark, N. M., 1965, "Effect of Earthquake on Dams and Embankments," *Geotechnique*, Vol. 15, pp. 139-160.
- NFPA 13, 1996, *Standard for the Installation of Sprinkler Systems*, National Fire Protection Association, Quincy, Massachusetts.
- NFPA, 325-94, 1994, *Guide to Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids*, National Fire Protection Association, Quincy, Massachusetts.
- NFPA, 49-94, 1994, *Hazardous Chemicals Data*, National Fire Protection Association, Quincy, Massachusetts.
- NFPA, 49IM-91, 1991, *Manual of Hazardous Chemical Reactions*, National Fire Protection Association, Quincy, Massachusetts.
- NFPA, 704-90, 1990, *Standard System for the Identification of the Fire Hazards of Materials*, National Fire Protection Association, Quincy, Massachusetts.

References

- Nims, D. F., Richter, P. J., and Bachman, R. E., 1993, "The Use of the Energy Dissipation Restraint for Seismic Hazard Mitigation," *Earthquake Spectra*, Earthquake Engineering Research Institute, Oakland, California, Vol. 9, No. 3, pp. 467-498.
- Noland, J. L., Atkinson, R. H., and Kingsley, G. R., 1987, "Nondestructive Methods for Evaluating Masonry Structures," *Proceedings of International Conference on Structural Faults and Repair*, London, United Kingdom.
- NPS, 1995, *Catalog of Historic Preservation Publications*, National Park Service, Washington, D.C.
- Pekcan, G., Mander, J., and Chen, S., 1995, "The Seismic Response of a 1:3 Scale Model RC Structure with Elastomeric Spring Dampers," *Earthquake Spectra*, Earthquake Engineering Research Institute, Oakland, California, Vol. 11, No. 2, pp. 249-267.
- Pender, M. J., 1993, "A Seismic Pile Foundation Design Analysis," *Bulletin of the New Zealand National Society for Earthquake Engineering*, Vol. 26, No. 1, pp. 49-161.
- Precast/Prestressed Concrete Institute, 1999, *PCI Design Handbook: Precast and Prestressed Concrete*, 5th ed., Chicago, Illinois.
- Priestly, M. J. N., Evison, R. J., and Carr, A. J., 1978, "Seismic Response of Structures Free to Rock on Their Foundations," *Bulletin of the New Zealand National Society for Earthquake Engineering*, Vol. 11, No. 3, pp. 141-150.
- Reese, L. C., Wand, S. T., Awashika, K., and Lam, P.H.F., 1994, *GROUP—A Computer Program for Analysis of a Group of Piles Subjected to Axial and Lateral Loading*, Ensoft, Inc., Austin, Texas.
- Reinhorn, A. M., Nagarajaiah, S., Constantinou, M. C., Tsopelas, P., and Li, R., 1994, *3D-BASIS-TABS (Version 2.0): Computer Program for Nonlinear Dynamic Analysis of Three-Dimensional Base Isolated Structures*, Report No. NCEER-94-0018, National Center for Earthquake Engineering Research, State University of New York at Buffalo, New York.
- Sansalone, M., and Carino, N., 1988, "Impact-Echo Method, Detecting Honeycombing, the Depth of Surface Opening Cracks, and UngROUTed Tendons," p. 38, *Concrete International*, American Concrete Institute, Detroit, Michigan.
- SDI Manual, Diaphragm Design Manual for Composite Decks, Form Decks and Roof Decks*, First Edition, Steel Deck Institute, Fox River Grove, Illinois.
- Secretary of the Interior, 1990, *Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings*, National Park Service, Washington, D.C.
- Secretary of the Interior, 1992, *Standards for the Treatment of Historic Properties*, National Park Service, Washington, D.C.
- 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, New York, New York, Vol. 97, No. SM9, pp. 1249-1273.
- Seed, H. B., and Idriss, I. M., 1982, "Ground Motions and Soil Liquefaction During Earthquakes," *Monograph Series*, Earthquake Engineering Research Institute, Oakland, California.
- Seed, H. B., Tokimatsu, K., Harder, L. F., and Chung, R. M., 1985, "Influence of SPT Procedures in Soil Liquefaction Resistance Evaluations," *Journal of the Geotechnical Engineering Division*, American Society of Civil Engineers, New York, New York, Vol. 111, No. 12, pp. 1425-1445.
- 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*, Vol. 2, pp. 351-376.
- Sheet Glass Associated, 1982, *Earthquake Safety Design of Windows*, Japan.
- Sheet Metal Industry Fund of Los Angeles, 1976, *Guidelines for Seismic Restraints of Mechanical Systems*, Los Angeles, California.
- SMACNA, 1980, *Rectangular Industrial Duct Construction Standards*, Sheet Metal and Air Conditioning Contractors National Association, Chantilly, Virginia.
- SMACNA, 1985, *HVAC Duct Construction Standards, Metal and Flexible*, Sheet Metal and Air Conditioning Contractors National Association, Chantilly, Virginia.
- SMACNA, 1991, *Seismic Restraint Manual Guidelines for Mechanical Equipment, and Appendix E-1993 Addendum*, Sheet Metal and Air Conditioning Contractors National Association, Chantilly, Virginia.

References

- SP-58, 1993, *Pipe Hangers and Supports: Materials, Design and Manufacture*, Manufacturers Standardization Society of the Valve and Fitting Industry, Vienna, Virginia.
- Stark, T. D., and Mesri, G., 1992, "Undrained Shear Strength of Liquefied Sands for Stability Analysis," *Journal of the Geotechnical Engineering Division*, American Society of Civil Engineers, New York, New York, Vol. 118, No. 11, pp. 1727-1747.
- Timeshenko, S. and Woinowsky-Krieger, S., 1959, *Theory of Plates and Shells*, Second Edition, McGraw-Hill, New York, NY.
- Timler, P. A., 2000, *Design Evolution and State-of-the-Art Development of Steel Plate Shear Wall Construction in North America*, Proceedings of the 69th Annual SEAOC Convention, Vancouver, British Columbia, Canada, pp. 197-208.
- Tissell, John R., 1993, *Wood Structural Panel Shear Walls, Research Report #154*, American Plywood Association, Tacoma, Washington.
- Tissell, John R., and Elliott, James R., 1997, *Plywood Diaphragms*, Research Report #138, American Plywood Association, Tacoma, Washington.
- TM5-809-10.1, 1986, Department of the Army, Navy, and Air Force, *Seismic Design of Buildings*, (Publication Nos. Air Force AFM 88-3, Army TM5-809-10.1, Navy NAVFAC P-355.1, Chapter 13.1), Department of the Army, Navy, and Air Force, Washington, D.C.
- Tokimatsu, A. M., and Seed, H. B., 1987, "Evaluation of Settlements in Sands Due to Earthquake Shaking," *Journal of the Geotechnical Engineering Division*, American Society of Civil Engineers, New York, NY, Vol. 113, No. 8, pp. 681-878.
- Tsopelas, P. C., Constantinou, M. C., and Reinhorn, A. M., 1994b, *3D-BASIS-ME Computer Program for Nonlinear Dynamic Analysis of Seismically Isolated Single and Multiple Structures and Liquid Storage Tanks*, Report No. NCEER-94-0014, National Center for Earthquake Engineering Research, State University of New York at Buffalo, New York.
- Tsopelas, P., and Constantinou, M. C., 1994a, *Experimental and Analytical Study of Systems Consisting of Sliding Bearings and Fluid Restoring Force-Damping Devices*, Report No. NCEER 94-0010, National Center for Earthquake Engineering Research, State University of New York at Buffalo, New York.
- UBC 21-6, 1997, "In-Place Masonry Shear Tests," International Conference of Building Officials, Whittier, California.
- UCBC, 1994, *Uniform Code for Building Conservation*, International Conference of Building Officials, Whittier, California.
- Wallace, J. W., 1994, "New Methodology for Seismic Design of RC Shear Walls," *Journal of the Structural Engineering Division*, American Society of Civil Engineers, New York, New York, Vol. 120, No. 3, pp. 863-884.
- 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.
- WWPA, 1983, *Western Woods Use Book*, Western Wood Products Association, Portland, Oregon.
- Yegian, M. K., Marciano, E. A., and Gharaman, V. G., 1991, "Earthquake-Induced Permanent Deformation: Probabilistic Approach," *Journal of the Geotechnical Engineering Division*, American Society of Civil Engineers, New York, NY, Vol. 117, No. 1, pp. 35-50.
- Yim, S. C. and Chopra, A. K., 1985, "Simplified Earthquake Analysis of Multistory Structures with Foundation Uplift," *Journal of Structural Engineering*, American Society of Civil Engineers, New York, New York, Vol. 111, No. 12, pp. 2708-2731.
- 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.
- Zayas, V. A., Low, S. S., and Mahin, S. A., 1987, *The FPS Earthquake Resisting System: Experimental Report*, Report No. UCB/EERC-87/01, Earthquake Engineering Research Center, University of California, Berkeley, California.