

## 9.0 REFERENCES

- Abbott, R.E., Louie, J.N., Caskey, S.J., and Pullammanappallil, S., 2001, Geophysical confirmation of low-angle normal slip on the historically active Dixie Valley fault, Nevada, *J. Geophys. Res.*, v. 106, p.4169-4181.
- Abercrombie, R. E., 1995, Earthquake source scaling relationships from -1 to 5  $M_L$ , using seismograms recorded at 2.5 km depth, *J. Geophys. Res.*, v. 100, p. 24015-24036.
- Abrahamson, N. A. and W. J. Silva, 1997, Empirical response spectral attenuation relations for shallow crustal earthquakes, *Seismol. Res. Lett.*, v. 68, p. 94-127.
- Ake, J.P., Ostenaar, D., Mahrer, K., Sneddon, C., and Block, L., 2001, Seismotectonic evaluation and probabilistic seismic hazard analysis for Ridgway Dam, Dallas Creek Project, Colorado, U.S. Bureau of Reclamation Seismotectonic Report 2001-4, Denver, Colorado.
- Anders, M.H., Geissman, J.W., Piety, L.A., and Sullivan, J.T., 1989, Parabolic distribution of circumeastern Snake River Plain seismicity and latest Quaternary faulting: Migratory pattern and association with the Yellowstone hotspot, *J. Geophys. Res.*, v. 94, p. 1589-1621.
- Anderson, E.M., 1951, *The Dynamics of Faulting* (2nd edition), Edinburgh, Oliver, and Boyd, 206 pp.
- Anderson, J.G., Zeng, Z., and Sucuoglu, H., 2001, Analysis of accelerations from the 1 October 1995 Dinar, Turkey, earthquake, *Bull. Seism. Soc. Am.*, v. 91, p. 1433-1445.
- Anderson, L.W., and O'Connell, D.R.H., 1993, Seismotectonic study of the northern portion of the lower Colorado River, Arizona, California, Nevada, U.S. Bureau of Reclamation Seismotectonic Report 93-4, Denver, Colorado.
- Anderson, L.W., and O'Connell, D.R.H., 1998, Seismotectonic evaluation for Casitas Dam, Ventura River Project, California, U.S. Bureau of Reclamation Seismotectonic Report 98-3, Denver, Colorado, 72 pp.
- Andrews, D.J., 1980, A stochastic fault model, 1, static case, *J. Geophys. Res.*, v. 85, p. 3867-3877.
- Andrews, D.J., 1986, Objective determination of source parameters and similarity of earthquakes of different size, *in* Earthquake Source mechanics, Das, S., Boatwright, J., and Scholz, C.H., eds., American Geophysical Union, Washington, D.C., p. 259-268.
- Andrews, D. J. and J. Boatwright, 1998, Dynamic simulation of spontaneous rupture with heterogeneous stress drop, *Seism. Res. Lett.*, v. 69, p. 143.
- Andrews, D.J., 1999, Test of two methods for faulting in finite-difference calculations, *Bull. Seism. Soc. Am.*, v. 89, p. 931-937.
- Arabasz, W.J. and S.J. Hill, 1996, Applying Reasonberg's cluster-analysis algorithm to regional earthquake catalogs outside California (abstract), *Seism. Res. Lett.*, v. 67, no. 2, p. 30.
- Arabasz, W.J., R.B. Smith, and W.D. Richins (1980), Earthquake studies along the Wasatch front, Utah: Network monitoring, seismicity, and seismic hazards, *Bulletin of the Seismological Society of America*, 70, 1479-1499.
- Archuleta, R. J. and S. H. Hartzell, 1981, Effects of fault finiteness on near-source ground motion, *Bull. Seism. Soc. Am.*, v. 71, p. 939-957.
- Archuleta, R.J., 1984, A faulting model of the 1979 Imperial Valley earthquake, *J. Geophys. Res.*, v. 89, p. 4559-4585.

- Archuleta, R. J., 1998, Direct observation of nonlinearity in accelerograms, in "The Effects of Surface Geology on Seismic Motion", K. Irikura, K. Kudo, H. Okada and T. Sasatani (eds), Vol.2, p. 787-792, A. A. Balkema, Rotterdam.
- Archuleta, R.J., L. F., Bonilla, and D. Lavallée, 2000, Nonlinearity in observed and computed accelerograms, in Proceeding of the 12th World Conference on Earthquake Engineering, Aston Koedyk Ltd (pub). Paper reference number 0338.
- Behrendt, J.S., Tibbetts, B.L., Bonini, W.E., and Lavin, P.M., 1968. A geophysical study in Grand Teton National Park and vicinity, Teton County, Wyoming, *U.S. Geol. Surv. Prof. Pap.*, 516-E, 23 pp.
- Ben-Zion, Y., 2001, Dynamic ruptures in recent models of earthquake faults, *J. Mech. Phys. Solids*, v. 49, p. 2209-2244.
- Beresnev, I. A., and G. M. Atkinson, 1997, Modeling finite-fault radiation from the  $\omega^n$  spectrum, *Bull. Seism. Soc. Am.*, v. 87, p. 67-84.
- Bizzarri, A., Cocco, M., Andrews, D.J., and Boschi, E., 2001, Solving the dynamic rupture problem with different numerical approaches and constitutive laws, *Geophys. J. Int.*, v. 144, p. 656-678.
- Boatwright, J., 1982, A dynamic model for far-field acceleration, *Bull. Seism. Soc. Am.*, v. 72, p. 1049-1068.
- Bodin, P., Gomberg, J., Singh, S.K., and Santoyo, 1997, Dynamic deformations of shallow sediments in the Valley of Mexico, part I: Three-dimensional strains and rotations recorded on a seismic array, *Bull. Seism. Soc. Am.*, v. 87, p. 528-539.
- Bommer, J.J., and Martinez-Pereira, A., 1999, The effective duration of earthquake strong motion, *J. Earthquake Eng.*, v. 3, p. 127-172.
- Bonilla, L. F., D. Lavallee, and R. J. Archuleta, 1998, Nonlinear site response: Laboratory modeling as a constraint for modeling accelerograms, in *The Effects of Surface Geology on Seismic Motion*, Vol. 2, K. Irikura, K. Kudo, H. Okada, and T. Sasatani (Editors), Balkema, Rotterdam, p. 793–800.
- Bonilla, L. F., 2000, Computation of linear and nonlinear response for near field ground motion, Ph.D. Dissertation, University of California, Santa Barbara.
- Borcherdt, R.D., 1970, Effects of local geology on ground motions near San Francisco Bay, *Bull. Seism. Soc. Am.*, v. 60, p. 29-61.
- Boore, D.M., 1970, Love waves in non-uniform wave guides: finite difference calculations, *J. Geophys. Res.*, v. 75, p. 1512-1527.
- Boore, D.M., Lerner, K.L., and Aki, K., 1971, Comparison of two independent methods for the solution of wave-scattering problems: response of a sedimentary basin to vertically incident SH waves: *Journal of Geophysical Research*, v. 76, p. 558-569.
- Bouchon, M., Bouin, H. Karabulut, M.N.Toksoz, M. Dietrich, A.J. Rokasis, 2001, How fast is rupture during an earthquake? New insight from the 1999 Turkey earthquakes, *Geophys. Res. Lett.*, v. 28, p. 2723-2726.
- Buck, W.R., 1993. Effect of lithospheric thickness on the formation of high- and low-angle normal faults, *Geology*, v. 21, p. 933-936.
- Byrd, J.O.D., Smith, R.B., and Geissman, J.W., 1994, The Teton fault, Wyoming: Topographic signature, neotectonics, and mechanism of deformation: *Jour. Geophys. Res.*, v. 99, no. B10, p. 20,095-20,122.

- Byrd, J.O.D., 1995, Neotectonics of the Teton fault, Wyoming: [unpub] PhD dissertation, Department of Geology and Geophysics, Univ. of Utah, Salt Lake City, UT, Aug. 1995, 214 p.
- Chen, M.-T., and Harichandran, R.S., 2001, Response of an earth dam to spatially varying earthquake ground motion, *J. Eng. Mech.*, v. 127, p. 932-939.
- Claerbout, J.F., 1976, *Fundamentals of Geophysical Data Processing*, McGraw-Hill, New York.
- Collettini, C., and Sibson, R.H., 2001, Normal faults, normal friction?, *Geology*, v. 29, p. 297-930.
- Connor, M.A., 1998, Final report on the Jackson Lake archeological project, Grand Teton National Park, Wyoming: Report prepared for Bureau of Reclamation, Pacific Northwest Office, Boise, ID, with contributions by K.L. Pierce, S. Lundstrom, and J.M. Good, Technical Report No. 46, Department of the Interior, National Park Service, Midwest Archeological Center, Lincoln, Nebraska, 278 p.
- Dahlen, F. A., 1974, On the ratio of P-wave to S-wave corner frequencies for shallow earthquake sources, *Bull. Seism. Soc. Am.*, v. 64, p. 1159-1180.
- Davis, P. M., J. L. Rubinstein, K. H. Liu, S. S. Gao, L. Knopoff, 2000, Northridge earthquake damage caused by geologic focusing of seismic waves, *Science*, v. 289, p. 1746-1750.
- Doser, D.I., 1986, Earthquake processes in the Rainbow Mountain-Fairview Peak-Dixie Valley, Nevada, region 1954-1959, *J. Geophys. Res.*, v. 91, p. 12,572-12,586.
- Doser, D.I., and Smith, R.B., 1989, An assessment of source parameters of earthquakes in the cordillera of the western United States, *Bull. Seism. Soc. Am.*, v. 79, p. 1383-1409.
- Field, E.H., Jacob, K.H., and Hough, S.H., 1992, Earthquake site response estimation: a weak-motion case study, *Bull. Seism. Soc. Am.*, v. 82, p. 2283-2307.
- Field, E.H., and Jacob, K.H., 1995, A comparison and test of various site-response estimation techniques, including three that are not reference-site dependent, *Bull. Seism. Soc. Am.*, v. 85, p. 1127-1143.
- Field, E. H., P. A. Johnson, I. A. Beresnev, and Y. Zeng, 1997, Nonlinear ground-motion amplification by sediments during the 1994 Northridge earthquake, *Nature*, v. 390, p. 599-602.
- Frankel, A., and Clayton, R. W., 1986, Finite difference simulations of seismic scattering: implications for the propagation of short-period seismic waves in the crust and models of crustal heterogeneity, *J. Geophys. Res.*, v.91, p. 6465-6489.
- Frankel, A., S. Hough, P. Friberg, and R. Busby, 1991, Observations of Loma Prieta aftershocks from a dense array in Sunnyvale, California, *Bull. Seism. Soc. Am.*, v. 81., p. 1900-1922.
- Frankel, A., 1993, Three-dimensional simulations of ground motions in the San Bernardino Valley, California, for hypothetical earthquakes on the San Andreas fault, *Bull. Seism. Soc. Am.*, v. 83, p. 1020-1041.
- Frankel, A., 1995, Simulating strong motions of large earthquakes using recordings of small earthquakes: The Loma Prieta mainshock as a test case, *Bull. Seism. Soc. Am.*, v. 85., p. 1144-1160.
- Frankel, A.D., Carver, D.L., and Williams, R.A., 2002, Nonlinear and linear site response and basin effects in Seattle for the M 6.8 Nisqually, Washington, earthquake, *Bull. Seism. Soc. Am.*, v. 92., p. 2090-2109.
- Fuis, G.S., Mooney, W.D., Healy, J.H., McMechan, G.A., and Lutter, W.J., 1982, Crustal structure of the Imperial Valley region, in *The Imperial Valley, California, Earthquake*, October 15, 1979, *U.S. Geol. Surv. Prof. Pap.*, no. 1254, p. 25-50.

- Gilbert, J.D., Ostenaar, D., and Wood, C., 1983, Seismotectonic study, Jackson Lake Dam and Reservoir, Minidoka Project, Wyoming: Seismotectonic Report 83-8, US Bureau of Reclamation, Boise, ID and Denver, CO, 122 p. and appendices.
- Good, J.M., and Pierce, K.L., 1996, Interpreting the landscapes of Grand Teton and Yellowstone National Parks, recent and ongoing geology: Grand Teton Natural History Association, Grand Teton National Park, Moose, Wyoming, 58 p.
- Guatteri, M., Mai, P.M., Beroza, G.C., and Boatwright, J., 2003, *Bull. Seism. Soc. Am.*, v. 93, p. 301-313.
- Graves, R.W., 1993, Modeling three-dimensional site responses effects in the Marina District basin, San Francisco, California, *Bull. Seism. Soc. Am.*, v. 83, p. 1042-1063.
- Graves, R.W., 1996, Simulating seismic wave propagation in 3D elastic media using staggered-grid finite differences, *Bull. Seism. Soc. Am.*, v. 86, p. 1091-1106.
- Graves, R. W. and Wald, D. J., 2001, Resolution analysis of finite fault source inversion using one- and three-dimensional Green's functions: 1, Strong motions. *J. Geophys. Res.*, v. 106, p. 8745-8766.
- Graves, R.W., and Day, S.M., 2003, Stability and accuracy analysis of course-grain viscoelastic simulations, *Bull. Seism. Soc. Am.*, v. 93., p. 283-300.
- Hartzell, S., 1978, Earthquake aftershocks as Green's functions, *Geophys. Res. Lett.*, v. 5, p. 1-4.
- Hartzell, S., Liu, P., and Mendoza, C., 1996, The 1994 Northridge, California, earthquake: Investigations of rupture velocity, risetime, and high-frequency radiation, *J. Geophys. Res.*, v. 101, p. 20,091-20,108.
- Hartzell, S., Leeds, A., Frankel, A., Williams, R.A., Odum, J., Stephenson, W., and Silvea, W., 2002, Simulation of broadband ground motion including nonlinear soil effects for a magnitude 6.5 earthquake on the Seattle fault, Seattle, Washington, *Bull. Seism. Soc. Am.*, v. 92, p. 831-853.
- Hauksson, E., and Haase, J.S., 1997, Three-dimensional Vp and Vp/Vs velocity models of the Los Angeles and central Transverse Ranges, California, *J. Geophys. Res.*, v. 102, p. 5423-5443.
- Heaton, T. H., J. F. Hall, D. J. Wald, and M. W. Halling, 1995, Response of high-rise and base-isolated buildings to a hypothetical Mw 7.0 blind thrust earthquake, *Science*, v. 267, p. 206-211.
- Herrero A. and P. Bernard, 1994, A kinematic self similar rupture process for earthquakes, *Bull. Seism. Soc. Am.*, v. 84, p. 1216-1228.
- Hole, J. A., and B. C. Zelt, 1995, 3-D finite-difference reflection traveltimes, *Geophys. J. Int.*, v. 121, p. 427-434.
- Holzer, T. L., T. L. Youd, and T. C. Hanks, 1989, Dynamics of liquefaction during 1987 Superstition Hills, California, earthquake, *Science*, v. 244, p. 56-59.
- Hutchings, L., 1994, Kinematic earthquake models and synthesized ground motions using empirical Green's functions, *Bull. Seism. Soc. Am.*, v. 84, p. 1028-1050.
- Iai, S., Y. Matsunaga, and T. Kameoka, 1990a, Strain Space Plasticity Model for Cyclic Mobility, Report of the Port and Harbour Research Institute, v. 29, p. 27-56.
- Iai, S., Y. Matsunaga, and T. Kameoka (1990b). Parameter Identification for Cyclic Mobility Model, Report of the Port and Harbour Research Institute, v. 29, p. 57-83.
- Iai, S., T. Morita, T. Kameoka, Y. Matsunaga, and K. Abiko, 1995, Response of a dense sand deposit during 1993 Kushiro-Oki earthquake, *Soils Found.*, v. 35, p. 115-131.

- Ichinose, G.A., Smith, K.D., and Anderson, J.G., 1997, Source parameters of the 15 November 1995 Border Town, Nevada, earthquake sequence, *Bull. Seism. Soc. Am.*, v. 87, p. 652-667.
- Ishihara, K., 1985, Stability of natural deposits during earthquakes, in Proceedings, 11th International Conference on Soil Mechanics and Foundation Engineering, Balkema Publishers, Rotterdam, v.1, p. 321-376.
- Jarpe, S. P. and P. W. Kasameyer, 1996, Validation of a procedure for calculating broadband strong-motion time histories with empirical Green's functions, *Bull. Seism. Soc. Am.*, v. 86, p. 1116-1129.
- Joyner, W. B. and D. M. Boore, 1993, Methods for regression analysis of strong-motion data, *Bull. Seism. Soc. Am.*, v. 83, p. 469-487.
- Kanamori, H., and D.L. Anderson, 1975, Theoretical basis for some empirical relations in seismology, *Bull. Seism. Soc. Am.*, v. 65, pp. 1073-1079.
- Kawase, H. and K. Aki, 1989, A study of the response of a soft basin for incident *S*, *P*, and Rayleigh waves with special reference to the long duration observed in Mexico City, *Bull. Seism. Soc. Am.*, v. 79, p. 1361-1382.
- Kayen, R.,E., and Mitchell, J.K., 1997. Assessment of liquefaction potential during earthquakes by Arias intensity, *J. Geotechnical Geoenvironmental Eng.*, v. 12, p.1162-1174.
- Kisslinger, C., 1980, Evaluation of S to P amplitude ratios for determining focal mechanisms from regional network observations, *Bull. Seism. Soc. Am.*, v. 70, p. 999-1014.
- Kisslinger, C., Bowman, J.R., and Koch, K., 1981, Procedures for computing focal mechanisms from local (SV/P)<sub>z</sub> data, *Bull. Seism. Soc. Am.*, v. 71, p. 1719-1729.
- Kramer, S. L., and P. Arduino, 1999, Constitutive modeling of cyclic mobility and implications for site response, in Proceedings, Second International Conference on Earthquake Geotechnical Engineering, Lisbon, Portugal, Balkema Publishers, Rotterdam, v. 3, p. 1029-1034.
- LaForge, R., 1999, Probabilistic ground motions for Monticello Dam, Solano Project, California, U.S. Bureau of Reclamation Technical Memorandum D8330-99-14, Denver, Colorado.
- Lageson, D.R., 1987, Laramide uplift of the Gros Ventre Range and implications for the origin of the Teton fault, Wyoming: Wyoming Geol. Assoc., 38th Annual Field Conf. Guidebook, p. 78-89.
- Lageson D.R. 1992, Possible Laramide influence on the Teton normal fault, western Wyoming, *in*: Link, P.K, Kuntz, M.A., and Platt, L. B., editors, Regional Geology of eastern Idaho and western Wyoming: Geological Society of America Memoir 179, p. 183-196.
- Larsen, S., and Grieger, J., 1998, Elastic modeling initiative, part III: 3-D computational modeling, Expanded Abstracts, 68th Annual SEG meeting, p.1803-1806.
- Lavin, P.M., and Bonini, W.E., 1957, Detailed gravity measurements in the Teton Range and Jackson Hole, Wyoming, *Geol. Soc. Am. Bull.*, v. 68, p. 1760.
- Lavier, L.L., Buck, W.R., and Pliakov, A.N.B., 1999, *Geology*, v. 27, no. 12, p. 1127-1130.
- Leopold, E.B., and Love, J.D., 2002, Plio-Pleistocene sediments indicate a Pleistocene uplift of Grand Tetons [abstr]: *Geol. Soc. Amer. Abstracts with Programs*, v. 34, no. 6, p. 409.
- Liu, H. L., and D. V. Helmberger, 1985, The 23:19 aftershock of the 15 October 1979 Imperial Valley earthquake: More evidence for an asperity, *Bull. Seism. Soc. Am.*, v. 75, p. 689-709.
- Lockhart, A.C., et al., 1986, Geologic report for final design, Jackson Lake Dam Modification, Jackson Lake Dam, Minidoka Project, Wyoming, Pacific Northwest Regional Office, Boise, Idaho.

- Lomnitz, C., J. Flores, O. Novaro, T. H. Seligman, and R. Esquivel, 1999, Seismic coupling of interface modes in sedimentary basins: A recipe for disaster, *Bull. Seism. Soc. Am.*, v. 89, p. 14-21.
- Love, J.D., and J. de la Montagne, 1956, Pleistocene and Recent tilting of Jackson Hole, Teton County, Wyoming: Guidebook Wyoming Geol. Asso., 11th Ann. Field Conf., p 169-178.
- Love, J.D., and Reed, J.C., 1971, Creation of the Teton landscape, the geological story of Grand Teton National Park: Grand Teton Natural History Association, Moose, WY, 120p.
- Love, J.D., Reed, J.C., Jr., 1992, Geological map of Grand Teton National Park: U.S. Geological Survey Miscellaneous Investigations Map I-2031, scale 1:62,500, 1 sheet.
- Love, J.D., and Christiansen, A.C., 1985, Geologic map of Wyoming: U.S. Geological Survey, Scale 1:500,000, 3 sheets.
- Machete, M.N., Pierce, K.L., MacCalpin, J.P., Haller, K.M., and Dart, R.L, in prep, Map and data for Quaternary faults and folds in Wyoming: US Geol. Surv., Open-File Report, review draft dated May 31, 2001.
- Madariaga, R., 1977, High-frequency radiation from crack (stress-drop) models of earthquake faulting, *Geophys. J.*, v. 51, p. 625-652.
- Mandl, G., 2000, *Faulting in Brittle Rocks: An Introduction to the Mechanics of Tectonic Faults*, Springer-Verlag, Berlin, 434 pp.
- Mayeda, K. and W. R. Walter, 1996, Moment, energy, stress drop, and source spectra of western United States earthquakes from regional coda envelope, *J. Geophys. Res.*, v. 101, p. 11,195-11,208.
- McGarr, A., 1984, Scaling of ground motion parameters, state of stress, and focal depth, *J. Geophys. Res.*, v. 89, p. 6969-6979.
- McGuire, J.J., Zhao, L., and Jordan, T.H., 2002. Predominance of unilateral rupture for a global catalog of large earthquakes. *Bull. Seism. Soc. Am.*, v. 92, p. 3309-3317.
- Mendoza, C., and Hartzell, S.H., 1988, Inversion for slip distribution using teleseismic P waveforms: North Palm Springs, Borah Peak, and Michoacan earthquakes, *Bull. Seism. Soc. Am.*, v. 78, p. 1092-1111.
- Miller, D. S. and R. B. Smith, 1999, P and S velocity structure of the Yellowstone volcanic field from local earthquake and controlled-source tomography, *J. Geophys. Res.*, v. 104, p. 15,105-15,121.
- Moczo, P., Kristek, J., and Halada, L., 2000, 3D 4th-order staggered-grid finite-difference schemes: Stability and grid dispersion, *Bull. Seism. Soc. Am.*, v. 90, p. 587 - 603.
- O'Connell, D.R., and Ake, J.P., 1995, Ground motion analysis for Hoover Dam, Boulder Canyon Project, U.S. Bureau of Reclamation Seismotectonic Report 94-1, Denver, Colorado, 114 pp.
- O'Connell, D. R. H., 1999a, Replication of apparent nonlinear seismic response with linear wave propagation models, *Science*, v. 283, p. 2045-2050.
- O'Connell, D. R. H., 1999b, Possible super-shear rupture velocities during the 1994 Northridge earthquake, *EOS*, v. 80, p. F941.
- O'Connell, D.R.H., 1999c, Ground motion evaluation for Casitas Dam, Ventura River Project, California, U.S. Bureau of Reclamation Seismotectonic Report 99-4, Denver, Colorado, 113 pp.
- O'Connell, D.R.H., and Unruh, J.R., 2000, Updated seismotectonic evaluation of faults within 10 km of Monticello Dam, Solano Project, California, U.S. Bureau of Reclamation Seismotectonic Report 99-5, Denver, Colorado, 101 pp., two appendices.

- O'Connell, D.R.H., and Unruh, J.R., and Block, L.V., 2001, Source characterization and ground-motion modeling of the 1892 Vacaville–Winters earthquake sequence, California, *Bull. Seism. Soc. Am.*, v. 91, p. 1471-1497.
- O'Connell, D.R.H., 2001, Ground motion analyses for Stony Gorge Dam, Orland Project, California, U.S. Bureau of Reclamation Seismotectonic Report 2001-3, Denver, Colorado, 212 pp., one appendix.
- O'Connell, D.R.H., and Ake, J.P., in press, Earthquake ground motion estimation, in: Earthquakes: Two-Volume Set (Hazards and Disasters), C. Rodrigue and E. Rovai, eds., Routledge, New York, 760 pp.
- Oglesby, D.D.; Archuleta, R.J., and Nielsen, S. B., 1998, Earthquakes on dipping faults: The effects of broken symmetry, *Science*, v. 280, p.1055-1059.
- Oglesby, D.D.; Archuleta, R.J., and Nielsen, S. B., 2000, The three-dimensional dynamics of dipping faults, *Bull. Seism. Soc. Am.*, v. 90, p. 616 - 628.
- Oglesby, D.D., and Day, S.M., 2002. Stochastic fault stress: Implications for fault dynamics and ground motions, *Bull. Seism. Soc. Am.*, v. 92, p. 3006-3021.
- Oreskes, N., Shrader-Frechett, K., and Belitz, K., 1994, Verification, validation, and confirmation of numerical models in the earth sciences, *Science*, v. 263, no. 5147, p. 641-646.
- Osborne, N.M., and Taber, J.J., 2000, Observation of basin edge effects in the Hutt Valley, New Zealand from weak ground motion recordings, *in*, Proceedings, Sixth International Conference on Seismic Zonation, Managing Earthquake Risk in the 21st Century, November 12-15, 2000, Palm Springs, California, USA, v. I, p. 393-398.
- Ostenaar, D.A., and Gilbert, J.D., 1988, Late Quaternary behavior of the Teton fault, Wyoming [abstr]: *Geol. Soc. Amer. Abstracts with Programs*, v. 20, p. A14.
- Ostenaar, D.A., Wood, C., and Gilbert, J.D., 1993, Seismotectonic study for Grassy Lake Dam - Minidoka Project, Wyoming: Seismotectonic Report 93-3, US Bureau of Reclamation, Denver, CO, 68 p. and plate.
- Pakiser, L.C., Jr., and Black, R.A., 1957, Exploring for ancient channels with the refraction seismograph [Arizona - Utah], *Geophysics*, v. 22, p. 32-47.
- Pierce, K.L., and Good, J.D., 1992, Field guide to the Quaternary geology of Jackson Hole, Wyoming: US Geol. Surv. Open-File Report 92-504, 54 p.
- Piety, L.A., C.K. Wood, J.D. Gilbert, J.T. Sullivan, and M.H. Anders (1986), Seismotectonic study for Palisades Dam and Reservoir, Seismotectonic Report 86-3, U.S. Bureau of Reclamation, Denver, CO, 198 pp.
- Porcella, R. L., 1980, Atypical accelerograms recorded during recent earthquakes, seismic engineering report, May–August 1980, U.S. Geol. Surv. Circ. 854-B, 1–7.
- Press, W.H., Teukolsky, S.A., Vetterling, W.T., Flannery, B.P., 1992, Numerical recipes in FORTRAN: The art of scientific computing, Cambridge University Press, New York, 963 p.
- Reasenber, P., 1985, Second-order moment of Central Californian seismicity, 1969-1982, *J. Geophys. Res.*, v. 90, p. 5479-5495.
- Richards, P. G., 1976, Dynamic motions near an earthquake fault: A three-dimensional solution, *Bull. Seism. Soc. Amer.*, v. 60, p. 1-32.
- Robertsson, J. O. A., Blanch, J. O., and Symes, W. W., 1994, Viscoelastic finite-difference modeling, *Geophysics*, v. 59, p. 1444-1456.
- SAC Joint Venture Steel Project Phase 2, 1997, Develop Suites of Time Histories, [http://nisee.berkeley.edu/data/strong\\_motion/sacsteel/draftreport.html](http://nisee.berkeley.edu/data/strong_motion/sacsteel/draftreport.html)

- Sadigh, K., C.-Y. Chang, J. A. Egan, F. Makdisi, and R. R. Youngs, 1997, Attenuation relationships for shallow crustal earthquakes based on California strong motion data, *Seism. Res. Lett.*, v. 68, no. 1, p. 180-189.
- Safak, E., 1991, Problems with using spectral ratios to estimate site amplification, *in* Proceedings, Fourth International Conference on Seismic Zonation, August 26-29, Stanford, California, USA, v. 2, p. 227-284.
- Safak, E., 1997, Models and methods to characterize site amplification from a pair of records, *Earthquake Spectra*, v. 13, p. 97-129.
- Santa-Cruz, S., Heredia-Zavoni, E., and Harichandran, R.S., 1999, Low-frequency behavior of coherency for strong ground motions in Mexico City and Japan, Proc. 12th ASCE Engineering Mech. Conf., N. Jones and R.G. Ghanem, eds., ASCE, Reston, Va.
- Savage, M.K. and Depolo, M., 1993, Foreshock probabilities in the western Great-Basin Eastern Sierra Nevada, *Bull. Seism. Soc. Am.*, v. 83, p. 1910-1938.
- Schnabel, P.B., J. Lysmer, and H.B. Seed, 1972, "SHAKE - A Computer Program for Earthquake Response Analysis of Horizontally Layered Sites, Earthquake Engineering Research Center, Report No. UCB/EERC-72/12. University of California, Berkeley, December.
- Schneider, J. F., W. J. Silva, and C. Stark, 1993, Ground motion model for the 1989 M 6.9 Loma Prieta earthquake including effects of source, path, and site, *Earthquake Spectra*, v. 9, p. 251-287.
- Selma, D.N., with contributions by Wirkus, K.E., and Roser, D.W., Final Construction Geology Report, Jackson Lake Dam, Safety of Dams Modifications, Specification DC-7665 and -7695, Minidoka Project, Idaho-Wyoming, Bend Construction Office, Bend, Oregon, December, 1996.
- Silva, W. J. and K. Lee, 1987, WES RASCAL code for synthesizing earthquake ground motions: State-of-the-Art for Assessing Earthquake Hazards in the United States, Report 24, U.S. Army Corps of Engineers Waterways Experiment Station, Miscellaneous Paper S-73-1, 120 pp.
- Sirles, P., 1986. In situ compressional and shear wave velocity investigations, Jackson Lake Dam, Minidoka Project, Wyoming, Bureau of Reclamation, Geophysics Section report of October, 1986, Denver, Colorado.
- Smith, R.B., and Arabasz, W.J., 1991, Seismicity of the Intermountain Seismic Belt, *in*: Slemmons, D.B., Engdahl, E.R., Zoback, M.D., and Blackwell, D.D., eds., Neotectonics of North America: Decade Map vol. 1., Geological Society of America, Boulder, CO, p. 185-228.
- Smith, R.B., Pierce, K.L., and Wold, R.J., 1993a, Seismic survey and Quaternary history of Jackson Lake, Wyoming, *in* Snoke, A.W., Steidtmann, J.R., and Roberts, S.M., eds., Geology of Wyoming: Geological Survey of Wyoming Memoir No. 5, p. 668-693.
- Smith, R.B., Byrd, J.O.D., Susong, D.D., 1993b, The Teton fault, Wyoming - Seismotectonics, Quaternary history, and earthquake hazards, *in* Snoke, A.W., Steidtmann, J.R., and Roberts, S.M., eds., Geology of Wyoming: Geological Survey of Wyoming Memoir No. 5, p. 628-667.
- Somerville, P., M. Sen, and B. Cohee, 1991, Simulations of strong ground motions recorded during the 1985 Michoacan, Mexico and Valparaiso, Chile, earthquakes, *Bull. Seism. Soc. Am.*, v. 81, p. 1-27.

- Somerville, P., K. Irikura, R. Graves, S. Sawada, D. Wald, N. Abrahamson, Y. Iwasaki, T. Kagawa, N. Smith, and A. Kowada, 1999, Characterizing crustal earthquake slip models for the prediction of strong ground motion, *Seism. Res. Lett.*, v. 70, p. 59-80.
- Somerville, P., N. Collins, R. Graves, and A. Pitarka, 2003, Development of an engineering model of basin-generated surface waves, Proceedings SMIP03 Seminar on Utilization of Strong-Motion Data, May 22, 2003, Oakland, California, M. Huang, ed., California Strong Motion Instrumentation Program, California Geological Survey, California Department of Conservation.
- Spetzler, J., and Snieder, R., 2001. The formation of caustics in two- and three-dimensional media, *Geophys. J. Int.*, v. 144, p. 175-182.
- Spudich, P., and Archuleta, R. J., 1987, Techniques for earthquake ground-motion calculation with applications to source parameterization to finite faults, in "Seismic Strong Motion Synthesis," (B. A. Bolt, ed.), Academic Press, Orlando, Florida, pp. 205-265.
- Spudich, P. and Iida, M., 1993, The seismic coda, site effects, and scattering in alluvial basins studied using aftershocks of the 1986 Palm Springs, California, earthquake as source arrays, *Bull. Seism. Soc. Am.*, v. 83, p. 1721-1743.
- Spudich, P., Fletcher, J. B., Hellweg, M., Boatwright, J., Sullivan, C., Joyner, W. B., Hanks, T. C., Boore, D. M., McGarr, A., Baker, L. M., and Lindh, A. G., 1997, SEA96 - A new predictive relation for earthquake ground motions in extensional tectonic regimes, *Seism. Res. Lett.*, v. 68, no. 1, p. 190-198.
- Spudich, P., Joyner, W.B., Lindh, A.G., Boore, D.M., Margaritis, B.M., and Fletcher, J.B., 1999, SEA99: A revised ground motion prediction relation for use in extensional tectonic regimes, *Bull. Seism. Soc. Am.*, v. 89, p. 1156-1170.
- Stirling, M.W., Anooshehpour, A., Brune, J.N., Biasi, G., Wesnousky, S.G., 2002, Assessment of the site conditions of precariously balanced rocks in the Mojave Desert, southern California, *Bull. Seism. Soc. Am.*, v. 92, p. 2139-2144.
- Susong, D.D., Smith, R.B., and Bruhn, R.L., 1987, Quaternary faulting and sedimentation of the Teton fault zone, Grand Teton National Park, Wyoming [abstr]: *Eos, Trans. Amer. Geophys. Union*, v. 68, p. 1452.
- Sylvester, A.G., Byrd, J.O.D., and Smith, R.B., 1991, Geodetic evidence for aseismic reverse creep across the Teton normal fault: *Geophys. Res. Letters*, v. 18, p. 1083-1086.
- Thatcher, W., and Hill, D.P., 1991, Fault orientations in extensional and conjugate strike-slip environments and their implications: *Geology*, v. 19, p. 1116-1120.
- Tibbetts, B.L., Behrendt, J.C., and Love, J.D., 1969, Seismic-refraction measurements in Jackson Hole, Wyoming, *Geol. Soc. Am. Bull.*, v. 80, p. 1109-1122.
- Towhata, I. and Ishihara, K., 1985, Shear work and pore water pressure in undrained shear, *Soils and Foundations*, v. 25, No.3, pp.73-84.
- USBR (Bureau of Reclamation), 1987, Design Summary, Jackson Lake Dam Modification, Minidoka Project, Wyoming (for Specifications no. DC-7665 (Stage I) and DC-7695 (Stage II)): prepared by Bureau of Reclamation, Assistant Commissioner - Engineering and Research Center, Denver, CO, 2 vol., variously paginated.
- Vidale, J.E., and Helmberger, D.V., 1987, Path effects in strong motion seismology, in "Seismic Strong Motion Synthesis," (B. A. Bolt, ed.), Academic Press, Orlando, Florida, pp. 267-319.

- Vidale, J. E., 1989, Influence of focal mechanism on peak accelerations of strong motions of the Whittier Narrows, California, earthquake and an aftershock, *J. Geophys. Res.*, v. 94, p. 9607-9613.
- Wald, D. J., T. H. Heaton, and K. W. Hudnut, 1996, The slip history of the 1994 Northridge, California, earthquake determined from strong-motion, teleseismic, GPS, and leveling, *Bull. Seism. Soc. Am.*, v. 86, p. S49-S70.
- Weichert, D., 1980, Estimation of the earthquake recurrence parameters for unequal observation periods for different magnitudes, *Bull. Seism. Soc. Am.*, v. 70, p. 1337-1347.
- Wells, D.L. and K. J. Coppersmith, 1994, New empirical relationships among magnitude, rupture length, rupture width, rupture area, and surface displacement, *Bull. Seism. Soc. Am.*, v. 84, p. 974-1002.
- Wernicke, B., 1995, Low-angle normal fault seismicity: A review: *J. Geophys. Res.*, v. 100, p. 20,159-20,174.
- Wolf, J.P., and Song, C., 1996, Finite-Element Modeling of Unbounded Media, John Wiley & Sons, New York, 331 pp.
- Wong, I., Olig, S., and Dober, M., 2000, Preliminary probabilistic seismic hazard analyses, Island Park, Grassy Lake, Jackson Lake, Palisades, and Ririe Dams: contract report to US Bureau of Reclamation, Denver, CO prepared by Seismic Hazards Group, URS Greiner Woodward-Clyde, Oakland, CA, variously paginated.
- Wong, J., and Nelson, J.S., 1989, Seismic tomography survey, Jackson Lake Dam, Jackson Hole, Wyoming, contained in USBR Technical Memorandum No. 3610-90-JL2.
- Wood, C., 1988, Earthquake Data - 1986, Jackson Lake Seismograph Network, Jackson Lake Dam, Minidoka Project, Wyoming, Seismotectonic Report 88-1, Bureau of Reclamation, Denver, Colorado.
- Wright, J., 1990, SMW quality assurance geophysical tomography testing and interpreted results in SMW columns and cutoff wall, U.S. Bureau of Reclamation, Division of Geotechnical Engineering and Geology Technical Memorandum 3610-90-JL2, Denver, Colorado.
- Yoshida, N., Kobayashi, S., Suetomi, I., and Miura, K., 2002, Equivalent linear method considering frequency dependent characteristics of stiffness and damping, *Soil Dynamics Earthquake Eng.*, v. 22, p. 203-222.
- Zeghal, M., and A.-W. Elgamal, 1994, Analysis of site liquefaction using earthquake records, *J. Geotech. Eng.*, v. 120, p. 996-1017.
- Zeng, Y., J. G. Anderson, and G. Yu, 1994, A composite source model for computing realistic strong ground motions, *Geophys. Res. Lett.*, v. 21, p. 725-728.
- Zeng, Y., and J. Anderson, 2000. Evaluation of numerical procedures for simulating near-fault long-period ground motions using the Zeng method, Pacific Earthquake Engineering Res. Center Utilities Program Report 2000/01.
- Zoback, M.L., 1983, Structure and Cenozoic tectonism along the Wasatch fault zone, Utah, in "Tectonic and Stratigraphic Studies in the Eastern Great Basin", Miller, D.M., Todd, V.R., and Howard, K.A., eds., *Geol. Soc. Am. Memoir 157*, p. 3-27.