

SEISMICITY AND SEISMIC HAZARD ASSESSMENT SUGGESTED REFERENCES

EARTHQUAKES, SEISMIC GEOLOGY AND GEOTECHNICAL ASPECTS

- Bolt, B.A., 1999, "Earthquakes", W.H. Freeman and Company, New York, 4th Edition.
- Bolt, B.A., 1993, "Earthquakes and Geological Discovery", Scientific American Library, Distributed by W.H. Freeman and Company, New York
- Gere, J.M. and H.C. Shah, 1984, "Terra Non Firma", W.H. Freeman and Company, New York, 203 pp.
- Kramer, S.L., 1996, "Geotechnical Earthquake Engineering", Prentice-Hall, Inc., New Jersey, 653pp.
- McCalpin, J.P. (editor), 1996, "Paleoseismology", Academic Press Inc., San Diego, California, 588 pp.
- Yeats, R.S, K. Sieh and C.R. Allen, 1997, "The Geology of Earthquakes," Oxford University Press, New York, 568 pp.

SEISMIC HAZARD ASSESSMENT

- Abrahamson, N.A., 2000, "State of the Practice of Seismic Hazard Evaluation", GeoEng2000, International Conference on Geotechnical & Geological Engineering, Melbourne, November, 27pp.
- Bazzurro, P. and C.A. Cornell, 1999, "Disaggregation of Seismic Hazard", Bulletin of the Seismological Society of America, 89, pp. 501-520.
- Cornell, C.A., 1968, "Engineering Seismic Risk Analysis", Bulletin of the Seismological Society of America, 58, pp 1583-1606.
- Cornell, C.A., 1993, "Which 84th Percentile Do You Mean?", Fourth DOE Natural Phenomena Hazards Mitigation Conference, Atlanta, Georgia, pp 152-159.
- Earthquake Spectra, 2008. Special journal issue containing a collection of papers presenting the set of Next Generation (Ground-Motion) Attenuation (NGA) Models by various authors, Volume 24, No. 1, Earthquake Engineering Research Institute.
- EERI Committee on Seismic Risk, 1989, "The Basics of Seismic Risk Analysis", Earthquake Spectra, Vol. 5, No. 4, pp. 675-702
- Hanks, T.C. and C.A. Cornell, 1994, "Probabilistic Seismic Hazard Analysis: A Beginner's Guide", Fifth Symposium on Current Issues Related to Nuclear Plant Structures, Equipment and Piping, Orlando, Florida, pp. 1/1-1 to 1-17.
- McGuire, R.K., 1976, "Fortran Computer Program for Seismic Risk Analysis", USGS Open File Report 76-67, 1976.

McGuire, R.K., 1993, "Computations of Seismic Hazard", *Annali di Geofisica*, Vol. XXXVI, No. 3-4, pp 181-200.

McGuire, R.K., 1995, "Probabilistic seismic hazard analysis and design earthquakes: closing the loop", *Bulletin of the Seismological Society of America*, vol. 85, no. 5, pp. 1275-1284.

McGuire, R.K., 2004, "Seismic Hazard and Risk Analysis", *Earthquake Engineering Research Institute Monograph MNO-10*, 221 pp.

Reiter, L., 1990, "Earthquake Hazard Analysis: Issues and Insights", *Columbia University Press*, N.Y.

Seismological Research Letters, 1997, Special journal issue containing a collection of papers describing recent attenuation relationships by various authors, vol. 68, no.1, 255 pp.

SSHAC (Senior Seismic Hazard Analysis Committee), 1995, "Recommendations for Probabilistic Seismic Hazard Analysis: Guidance on Uncertainty and Use of Experts", *Lawrence Livermore National Laboratory Report UCRL-ID-122160*, 170 pp plus Appendices.

Weichert, D.H., 1980, "Estimation of the Earthquake Recurrence Parameters for Unequal Observation Periods for Difference Magnitudes", *Bulletin of the Seismological Society of America*, 70, pp 1337-1346.

Wells, D.L. and K.J. Coppersmith, 1994, "New Empirical Relationships Among Magnitude, Rupture Length, Rupture Width, Rupture Area, and Surface Displacement", *Bulletin of the Seismological Society of America*, 84, No. 4, pp 974-1002.

INTERNET REFERENCES

<http://www.earthquakescanada.nrcan.gc.ca/index-eng.php> – Natural Resources Canada/ Earthquakes Canada - lots of information about current and historical earthquakes in Canada, general earthquake information, National Building Code of Canada seismic hazard information and downloadable versions of publications.

<http://earthquake.usgs.gov/> - US Geological Survey – lots of information about current and historical earthquakes in the USA and the rest of the world. Links to web sites with information about USA building code seismic hazards.

<http://www.geophys.washington.edu/seismosurfing.html> – Surfing the Internet for Earthquake Data – an extensive worldwide listing of internet sites related to earthquakes and earthquake engineering, maintained by Steve Malone of the University of Washington (*note – this link no longer seems to be valid*).

HANDBOOKS

International Handbook of Earthquake & Engineering Seismology, 2003, Edited by W.H.K. Lee, H. Kanamori, P.C. Jennings and C. Kisslinger, Elsevier Academic Press, 2 volumes

JOURNALS

- Bulletin of the Seismological Society of America
- Earthquake Spectra - by Earthquake Engineering Research Institute
- Seismological Research Letters

NATIONAL BUILDING CODE OF CANADA

National Building Code of Canada 2010 can be purchased from the National Research Council of Canada. For details see: <http://www.nationalcodes.ca/eng/nbc/index.shtml>

Adams, J., and S. Halchuk, 2003, "Fourth generation seismic hazard maps of Canada: Values for over 650 Canadian localities intended for the 2005 National Building Code of Canada", Geological Survey of Canada Open File 4459, (digital copy available for download from GSC web page; see Internet References)

Canadian Journal of Civil Engineering, Volume 30, Number 2, April 2003, Special Issue: Proposed Earthquake Design Requirements of the National Building Code of Canada, 2005 edition

Mitchell, D., P. Paultre, R. Tinawi, M. Saatcioglu, R. Tremblay, K. Elwood, J. Adams, and R. DeVall, 2010. "Evolution of seismic design provisions in the National building code of Canada", Can. J. Civ. Eng. 37: 1157–1170

KEENLEYSIDE DAM RISK ANALYSIS CASE HISTORY

Lee, M.K., K.Y. Lum and D.N.D. Hartford, 1998, "Calculation of the Seismic Risk of an Earth Dam Susceptible to Liquefaction", Proc. Geotechnical Earthquake Engineering and Soil Dynamics Conf., ASCE, Seattle, pp. 1451-1460

Little, T.E. and K.M. Meidal, 1998, "Seismic Ground Motion Studies for Assessing Failure Probability of an Earth Dam", Proc. Geotechnical Earthquake Engineering and Soil Dynamics Conf., ASCE, Seattle, pp. 1439-1450

Yan, L., S. Sasitharan, K.Y. Lum and K.O. Ahlfield, 1998, "Laboratory Assessment of Residual Strength of Gravelly Fill of an Earth Dam", Proc. Geotechnical Earthquake Engineering and Soil Dynamics Conf., ASCE, Seattle, pp. 974-985