

# Special Offer on Bulk Orders of EERI Monographs

The hardcover monographs described below provide background and insight on the basics of earthquake engineering that may be of value to readers from different specialties or disciplines than the authors. Each is authored by nationally recognized experts. They are not intended to provide an exhaustive discussion of the subjects covered, but rather to point out the essential. As such, the monograph series is a **valuable tool** for students of earthquake engineering.

*Prices shown are EERI member prices. Bulk orders cannot be placed online.*

**MNO-12: *Soil Liquefaction During Earthquakes***, by I. M. Idriss and R. W. Boulanger. **New publication available end of August -- Current EERI members will receive one copy free of charge as a benefit of membership.** Updates a subject area covered in the 1982 classic text used around the world, *Ground Motions and Soil Liquefaction During Earthquakes*, by H. Bolton Seed and I.M. Idriss. Fills a need for a thorough synthesis — in one accessible resource for students, practicing engineers, and other professionals — of progress in the study of liquefaction over the past 25 years. Covers fundamentals of liquefaction behavior: a framework for a common understanding of the development and limitations of various engineering analytical procedures; liquefaction triggering analysis: methods for evaluating the potential for liquefaction triggering; consequences and mitigation of liquefaction: examples of lateral spreading and post-liquefaction settlement analyses, the use of factors of safety in engineering practice, mitigation strategies, and methods for ground improvement; cyclic softening of saturated clays: engineering procedures for evaluating the potential performance of cohesive fine-grained soils. 2008, 261 pp.

**MNO-11: *Earthquake Dynamics of Structures, A Primer***, by A.K. Chopra. An updated and expanded edition of Chopra's classic primer from 1981, *Dynamics of Structures*. Provides the nonspecialist in dynamics of structures with the basic concepts and knowledge needed to understand the response of structures to earthquake excitation. Presents structural dynamics concepts and analysis procedures in elastic and inelastic response of structures that in one form or the other are utilized in design codes and seismic evaluations guidelines. 2005, 141 pp.

**MNO-10: *Seismic Hazard and Risk Analysis***, by Robin K. McGuire. A general introduction to seismic risk assessment that explains how the disciplines of seismology, geology, strong-motion geophysics, and earthquake engineering contribute to the evaluation of seismic risk by communicating through a common language of best estimates and uncertainties. Describes the connection between probabilistic seismic hazard analysis (PSHA) and seismic risk in a quantitative format, covering how to describe earthquake source characteristics, estimate seismic ground shaking, perform seismic hazard analyses, and estimate seismic risk. The reader should know the elements of probability theory and be familiar with seismology, magnitude definitions, and representations of strong ground motion. 2004, 240 pp.

**MNO-9: *Fundamentals of Seismic Protection for Bridges***, by Mark Yashinsky and M. J. Karshenas. Covers the basic aspects of the seismic performance of bridges during past earthquakes, current practices in the seismic analysis and design of new bridges, and retrofit strategies. Also included is an extensive glossary of terms pertaining to bridges and their elements. Examines how bridge performance has been affected by construction, design details, proximity to different hazards,

and the characteristics of surrounding soil. Deals with how to design bridges for the variety of hazards that can occur during an earthquake. Focuses on the steps that a comprehensive bridge retrofit program would require. 2003, 184 pp.

**MNO-8: *Seismic Design with Supplemental Energy Dissipation Devices***, by Robert D. Hanson and Tsu T. Soong. Introduces basic concepts of the supplemental energy dissipation technology to design engineers, architects, and building officials so they can understand its benefits and limitations in structural applications. Summarizes information on the use of energy dissipation systems in designing new earthquake-resistant buildings and upgrading the seismic performance of existing buildings. 2001, 149 pp.

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