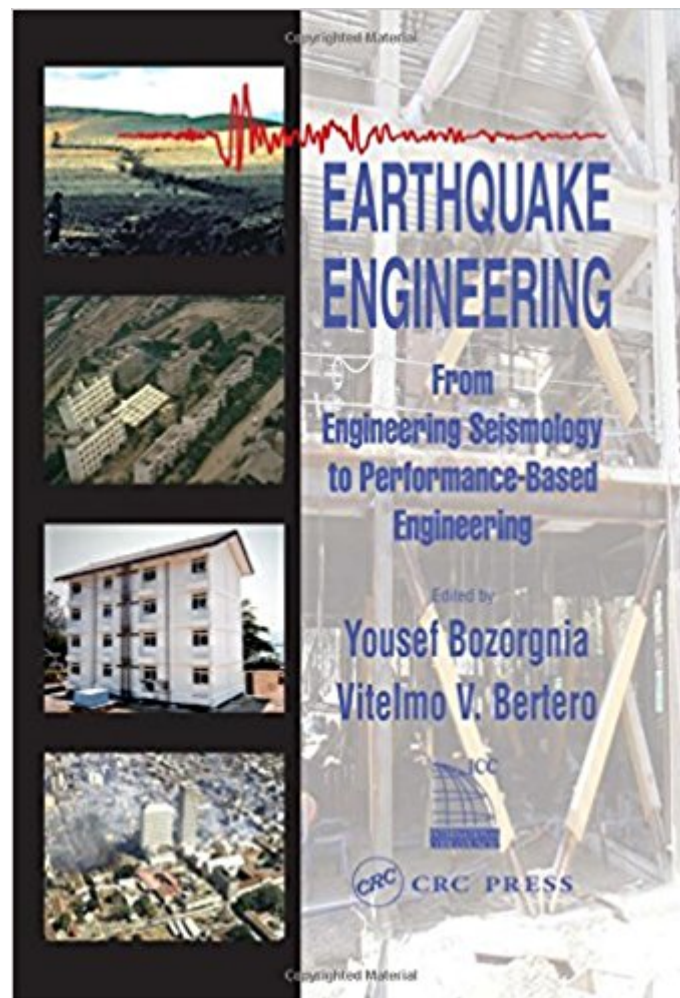




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Earthquake Engineering: From Engineering Seismology To Performance-Based Engineering



Synopsis

This multi-contributor book provides comprehensive coverage of earthquake engineering problems, an overview of traditional methods, and the scientific background on recent developments. It discusses computer methods on structural analysis and provides access to the recent design methodologies and serves as a reference for both professionals and researchers involved in earthquake engineering. With an entire chapter dedicated to seismic resistant design through supplemental damping and structural control, this volume includes important advances in the characteristics of earthquake ground motions, behavior and design of structures, seismic design of non-structural systems, and more.

Book Information

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"It is a comprehensive collection, which will serve as a useful guide for instructors, graduate students and practicing engineers." - MCEER Information Service News, July/Aug. 2004 "This encyclopaedic volume edited by the two well-respected experts Vitelmo Bertero and Yousef Bozorgnia provides a wide ranging account of advances in earthquake engineering, The organization of the book is logical and well thought out. The wealth of information contained in the book is unequalled." Intended for instructors, graduate students, and practicing engineers, this volume edited by Bozorgnia and Bertero is undoubtedly a valuable addition to the earthquake risk published literature. The sections at the end of each chapter outlining future challenges are inspiring and will indeed help to stimulate future developments. Bozorgnia and Bertero excel in editing the

huge volume and set their book ahead of the competition from other -multi-author books in earthquake engineering by meticulously planning the contents and adhering to a near-common format. The book is an essential read for engineers and geophysicists interested in earthquake risk." -- Journal of Earthquake Engineering, Vol. 8, No. 6 (2004) 963-964, November 2004.

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