



Earthquake Engineering for Structural Design

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Many important advances in designing earthquake-resistant structures have occurred over the last several years. Civil engineers need an authoritative source of information that reflects the issues that are unique to the field. Comprising chapters selected from the second edition of the best-selling Handbook of Structural Engineering, Earthquake Engineering for Structural Design provides a tightly focused, concise, and valuable guide to the theoretical, practical, and computational aspects of earthquake engineering.

In chapters contributed by renowned experts from around the world, this book supplies the latest concepts, design methodologies, and analytical techniques for mitigating the effects of seismic damage to structures. It discusses the fundamentals of earthquake engineering, explaining the causes of earthquakes and faulting, measurement of earthquakes, and characterization of seismicity. Subsequent chapters discuss the various types of earthquake damage to structures including recent improvements in earthquake performance, seismic design of buildings and bridges considering various types of construction materials, and performance-based seismic design and evaluation of building structures. The book introduces probabilistic approaches to performance-based methodologies as well as an application example of performance-based design.

Earthquake Engineering for Structural Design offers practical tools gathered together in a convenient reference for immediate implementation. It is an ideal resource for civil and structural engineers specializing in earthquake engineering.

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