



## Fundamentals of Seismic Loading on Structures (Hardback)

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By Tapan K. Sen

John Wiley and Sons Ltd, United States, 2009. Hardback. Condition: New. Language: English . Brand New Book. This book provides a practical guide to the basic essentials of earthquake engineering with a focus on seismic loading and structural design. Benefiting from the author s extensive career in structural and earthquake engineering, dynamic analysis and lecturing, it is written from an industry perspective at a level suitable for graduate students. Fundamentals of Seismic Loading on Structures is organised into four major sections: introduction to earthquakes and related engineering problems, analysis, seismic loading, and design concepts. From a practical perspective, reviews linear and non-linear behaviour, introduces concepts of uniform hazard spectra, discusses loading provisions in design codes and examines soil-structure interaction issues, allowing the reader to quickly identify and implement information in a working environment. Discusses probabilistic methods that are widely employed in the assessment of seismic hazard, illustrating the use of Monte Carlo simulation with a number of worked examples. Summarises the latest developments in the field such as performance-based seismic engineering and advances in liquefaction research. There are many books on earthquake engineering, but few are of direct use to the practising structural designer. This one, however, offers a new perspective, putting...

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