

## Seismic Analysis of Structures (Hardback)

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John Wiley and Sons Ltd, United Kingdom, 2010. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. While numerous books have been written on earthquakes, earthquake resistance design, and seismic analysis and design of structures, none have been tailored for advanced students and practitioners, and those who would like to have most of the important aspects of seismic analysis in one place. With this book, readers will gain proficiencies in the following: fundamentals of seismology that all structural engineers must know; various forms of seismic inputs; different types of seismic analysis like, time and frequency domain analyses, spectral analysis of structures for random ground motion, response spectrum method of analysis; equivalent lateral load analysis as given in earthquake codes; inelastic response analysis and the concept of ductility; ground response analysis and seismic soil structure interaction; seismic control \* Contains useful empirical equations often required in the seismic analysis of structures \* Outlines explicit steps for seismic analysis of MDOF systems with multi support excitations \* Works through solved problems to illustrate different concepts \* Makes use of MATLAB, SAP2000 and ABAQUAS in solving example problems of the topic, Seismic Analysis of Structures is ideal for postgraduates and researchers in Earthquake Engineering, Structural Dynamics, and Geotechnical Earthquake Engineering. Developed for classroom use, the book can also be used for advanced undergraduate students planning for a career or further study in the subject area. The book will also better equip structural engineering consultants and practicing engineers in the use of standard software for seismic analysis...

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