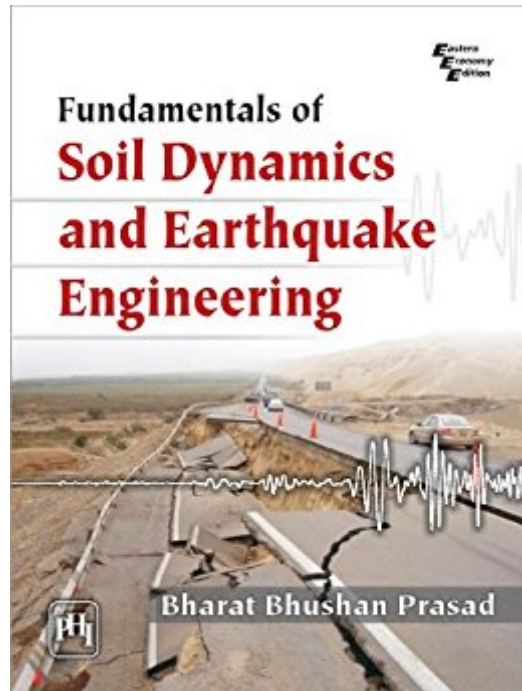


The book was found

# Fundamentals Of Soil Dynamics And Earthquake Engineering



## Synopsis

This textbook presents the fundamentals of Soil Dynamics, combined with the basic principles, theories and methods of Geotechnical Earthquake Engineering. It is designed for senior undergraduate and postgraduate students in Civil Engineering & Architecture. The text will also be useful to young faculty members, practising engineers and consultants. Besides, teachers will find it a useful reference for preparation of lectures and for designing short courses in Soil Dynamics and Geotechnical Earthquake Engineering. The book first presents the theory of vibrations and dynamics of elastic system as well as the fundamentals of engineering seismology. With this background, the readers are introduced to the characteristics of Strong Ground Motion, and Deterministic and Probabilistic seismic hazard analysis. The risk analysis and the reliability process of geotechnical engineering are presented in detail. An in-depth study of dynamic soil properties and the methods of their determination provide the basics to tackle the dynamic soil-structure interaction problems. Practical problems of dynamics of beam-foundation systems, dynamics of retaining walls, dynamic earth pressure theory, wave propagation and liquefaction of soil are treated in detail with illustrative examples.

## Book Information

File Size: 8034 KB

Publisher: PHI (June 27, 2013)

Publication Date: June 27, 2013

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B00K7YK5CW

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #1,672,431 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #135

in Books > Engineering & Transportation > Engineering > Civil & Environmental > Seismic Design

#591 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Civil >

Environmental #7675 in Books > Engineering & Transportation > Engineering > Civil &

Environmental > Environmental

[Download to continue reading...](#)

Fundamentals of Soil Dynamics and Earthquake Engineering Advanced Soil Dynamics And Earthquake Engineering Geotechnical Earthquake Engineering and Soil Dynamics III: Proceedings of a Specialty Conference August 3-6, 1998 University of Washington Seattle, ... Special Publication)Volumes 1 & 2 Methods of Soil Analysis. Part 2. Microbiological and Biochemical Properties (Soil Science Society of America Book, No 5) (Soil Science Society of America Book Series) Soil Dynamics with Applications in Vibration and Earthquake Protection Fundamentals of Earthquake Engineering (Civil engineering and engineering mechanics series) Matrix Analysis of Structural Dynamics: Applications and Earthquake Engineering (Civil and Environmental Engineering) Soil Mechanics in Highway Engineering (Series on Rock and Soil Mechanics) Earthquake Engineering: From Engineering Seismology to Performance-Based Engineering Dynamics of Structures: Theory and Applications to Earthquake Engineering (2nd Edition) Dynamics of Structures: Theory and Applications to Earthquake Engineering Seismic Analysis and Design for Soil-Pile-Structure Interactions: Proceedings of a Session Sponsored by the Committee on Geotechnical Earthquake ... of Civil (Geotechnical Special Publication) The Soul of Soil: A Soil-Building Guide for Master Gardeners and Farmers, 4th Edition Start With the Soil: The Organic Gardener's Guide to Improving Soil for Higher Yields, More Beautiful Flowers, and a Healthy, Easy-Care Garden Taylor's Weekend Gardening Guide to Soil and Composting: The Complete Guide to Building Healthy, Fertile Soil (Taylor's Weekend Gardening Guides (Houghton Mifflin)) Defining Soil Quality for a Sustainable Environment: Proceedings of a Symposium Sponsored by Divisions S-3, S-6, and S-2 of the Soil Science Society (S S S a Special Publication) Tomography of Soil-Water-Root Processes: Proceedings of a Symposium Sponsored by Division S-1 and S-6 of the Soil Science Society of America in Minn (S S S a Special Publication) Fundamentals of Earthquake Engineering Fundamentals of Earthquake Engineering: From Source to Fragility Earthquake Engineering: Damage Assessment and Structural Design (Methods & Applications in Civil Engineering)

[Dmca](#)