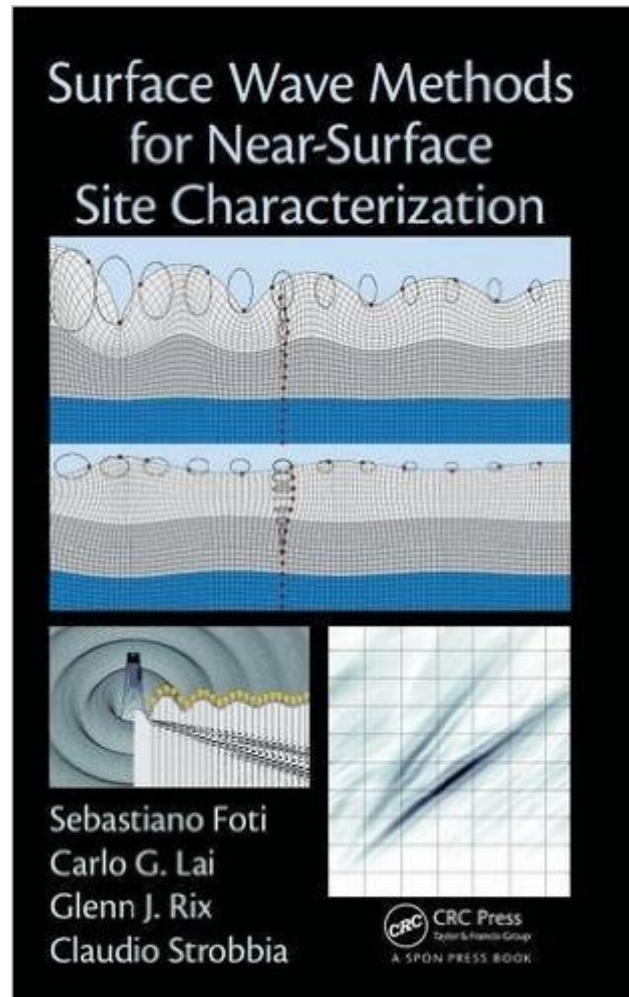


The book was found

Surface Wave Methods For Near-Surface Site Characterization



Synopsis

Develop a Greater Understanding of How and Why Surface Wave Testing Works Using examples and case studies directly drawn from the authors'™ experience, *Surface Wave Methods for Near-Surface Site Characterization* addresses both the experimental and theoretical aspects of surface wave propagation in both forward and inverse modeling. This book accents the key facets associated with surface wave testing for near-surface site characterization. It clearly outlines the basic principles, the theoretical framework and the practical implementation of surface wave analysis. In addition, it also describes in detail the equipment and measuring devices, acquisition techniques, signal processing, forward and inverse modeling theories, and testing protocols that form the basis of modern surface wave techniques. *Review Examples of Typical Applications for This Geophysical Technique* Divided into eight chapters, the book explains surface wave testing principles from data measurement to interpretation. It effectively integrates several examples and case studies illustrating how different ground conditions and geological settings may influence the interpretation of data measurements. The authors accurately describe each phase of testing in addition to the guidelines for correctly performing and interpreting results. They present variants of the test within a consistent framework to facilitate comparisons, and include an in-depth discussion of the uncertainties arising at each stage of surface wave testing. *Provides a comprehensive and in-depth treatment of all the steps involved in surface wave testing* Discusses surface wave methods and their applications in various geotechnical conditions and geological settings Explains how surface wave measurements can be used to estimate both stiffness and dissipative properties of the ground Addresses the issue of uncertainty, which is often an overlooked problem in surface wave testing Includes examples with comparative analysis using different processing techniques and inversion algorithms Outlines advanced applications of surface wave testing such as joint inversion, underwater investigation, and Love wave analysis Written for geotechnical engineers, engineering seismologists, geophysicists, and researchers, *Surface Wave Methods for Near-Surface Site Characterization* offers practical guidance, and presents a thorough understanding of the basic concepts.

Book Information

Hardcover: 487 pages

Publisher: CRC Press; 1 edition (August 26, 2014)

Language: English

ISBN-10: 0415678765

ISBN-13: 978-0415678766

Product Dimensions: 6.1 x 1.2 x 9.2 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars See all reviews (1 customer review)

Best Sellers Rank: #1,485,182 in Books (See Top 100 in Books) #72 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Seismic Design #93 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Earthwork Design #199 in Books > Science & Math > Earth Sciences > Seismology

Customer Reviews

Excellent book.

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

Surface Wave Methods for Near-Surface Site Characterization Ion Spectroscopies for Surface Analysis (Methods of Surface Characterization) Microsoft Surface Pro 4 & Microsoft Surface Book: The Beginner's Guide to Microsoft Edge, Cortana & Mail App on Microsoft Surface Pro 4 & Microsoft Surface Book Europe before Rome: A Site-by-Site Tour of the Stone, Bronze, and Iron Ages Characterization of Porous Solids and Powders: Surface Area, Pore Size and Density (Particle Technology Series) Divination, Politics, and Ancient Near Eastern Empires (Ancient Near East Monographs) Polymer Characterization: Physical Property, Spectroscopic, and Chromatographic Methods (ACS Advances in Chemistry) Materials Characterization: Introduction to Microscopic and Spectroscopic Methods Microsoft Surface Pro 4 & Microsoft Surface Book: The 2016 Definitive Beginner's Guide High Throughput Screening: Methods and Protocols (Methods in Molecular Biology) (Methods in Molecular Biology, 190) Surface Analysis Methods in Materials Science Semiconductor Material and Device Characterization A Practical Guide to Oil & Gas Resource Characterization For Geologists and Reservoir Engineers Materials Characterization Techniques Fundamentals of Powder Diffraction and Structural Characterization of Materials, Second Edition American Herbal Pharmacopoeia: Botanical Pharmacognosy - Microscopic Characterization of Botanical Medicines Biophysical Characterization of Proteins in Developing Biopharmaceuticals Colloidal Carriers for Controlled Drug Delivery and Targeting: Modification, Characterization, and In Vivo Distribution Experimental Organometallic Chemistry: A Practicum in Synthesis and Characterization (ACS Symposium Series 357) The Chemistry of Metal-Organic Frameworks: Synthesis, Characterization, and Applications

[Dmca](#)