



SURFACE WAVE ANALYSIS FOR NEAR SURFACE APPLICATIONS

— Giancarlo Dal Moro

Surface Wave Analysis For Near Surface Applications

Giancarlo Dal Moro



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Surface Wave Analysis for Near Surface Applications Giancarlo Dal Moro, 2014-11-04 Seismic Wave Analysis for Near Surface Applications presents the foundational tools necessary to properly analyze surface waves acquired according to both active and passive techniques Applications range from seismic hazard studies geotechnical surveys and the exploration of extra terrestrial bodies Surface waves have become critical to near surface geophysics both for geotechnical goals and seismic hazard studies Included in this book are the related theories approaches and applications which the lead editor has assembled from a range of authored contributions carefully selected from the latest developments in research A unique blend of theory and practice the book s concepts are based on exhaustive field research conducted over the past decade from the world s leading seismologists and geophysicists Edited by a geophysicist with nearly 20 years of experience in research consulting and geoscience software development Nearly 100 figures photographs and examples aid in the understanding of fundamental concepts and techniques Presents the latest research in seismic wave characteristics and analysis the fundamentals of signal processing wave data acquisition and inversion and the latest developments in horizontal to vertical spectral ratio HVSR Each chapter features a real world case study 13 in all to bring the book s key principles to life

Surface Wave Methods for Near-Surface Site Characterization Sebastiano Foti, Carlo Lai, Glenn J. Rix, Claudio Strobbia, 2014-08-21 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 **Surface Wave Methods for Near-Surface Site Characterization** Sebastiano Foti, Carlo Lai, Glenn J. Rix, Claudio Strobbia, 2014-08-21 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 **Efficient Joint Analysis of Surface Waves and Introduction to Vibration**

Analysis: Beyond the Clichés Giancarlo Dal Moro, 2020-06-20 This book bridges the gap between theory and practice showing how a detailed definition of the shear wave velocity VS profile can be efficiently obtained using limited field equipment and following simple acquisition procedures It demonstrates how surface waves used to define the VS profile and vibration data used to describe the dynamic behaviour of a building can be recorded using the same equipment and also highlights common problems ambiguities and pitfalls that can occur when adopting popular methodologies which are often based on a series of simplistic assumptions Today most national and international building codes take into account a series of parameters aimed at defining the local seismic hazard Sites are characterised based on the local VS profile and the dynamic behaviour of existing buildings is defined through the analysis of their eigenmodes The book includes a series of case studies

to help readers gain a deeper understanding of seismic and vibration data and the meaning pros and cons of a series of techniques often referred to as MASW ESAC SPAC ReMi HVSR MAAM and HS It also provides access to some of the datasets so that readers can gain a deeper and more concrete understanding of both the theoretical and practical aspects

Advances in Near-surface Seismology and Ground-penetrating Radar, Volume 15 Richard D. Miller, John H. Bradford, Klaus Holliger, Rebecca B. Latimer, 2010-01-11 Advances in Near surface Seismology and Ground penetrating Radar SEG Geophysical Developments Series No 15 is a collection of original papers by renowned and respected authors from around the world Technologies used in the application of near surface seismology and ground penetrating radar have seen significant advances in the last several years Both methods have benefited from new processing tools increased computer speeds and an expanded variety of applications This book divided into four sections Reviews Methodology Integrative Approaches and Case Studies Captures the most significant cutting edge issues in active areas of research unveiling truly pertinent studies that address fundamental applied problems This collection of manuscripts grew from a core group of papers presented at a post convention workshop Advances in Near surface Seismology and Ground penetrating Radar held during the 2009 SEG Annual Meeting in Houston Texas This is the first cooperative publication effort between the near surface communities of SEG AGU and EEGS It will appeal to a large and diverse audience that includes researchers and practitioners inside and outside the near surface geophysics community Publisher description **Geophysics Today** Sergey Fomel, 2010 In celebration of the 75th year of publication the Geophysics editorial team invited a collection of papers written by well recognized experts in various areas of exploration geophysics These invited papers not only form part of the present book but they also appear in the September October 2010 special section of the journal Geophysics Today A Survey of the Field as the Journal Celebrates its 75th Anniversary complements this special section with an additional group of papers drawn from Geophysics to address areas beyond the invited articles The result is a snapshot of the state of the art in the field as Geophysics passes its three quarter century mark This book is Geophysical References Series No 16 Near-Surface Applied Geophysics Mark E. Everett, 2013-04-25 Just a few meters below the Earth s surface lie features of great importance from geological faults which can produce devastating earthquakes to lost archaeological treasures This refreshing up to date book explores the foundations of interpretation theory and the latest developments in near surface techniques used to complement traditional geophysical methods for deep exploration targets Clear but rigorous the book explains theory and practice in simple physical terms supported by intermediate level mathematics Techniques covered include magnetics resistivity seismic reflection and refraction surface waves induced polarization self potential electromagnetic induction ground penetrating radar magnetic resonance interferometry seismoelectric and more Sections on data analysis and inverse theory are provided and chapters are illustrated by case studies giving students and professionals the tools to plan conduct and analyze a near surface geophysical survey This is an important textbook for advanced undergraduate and graduate

students in geophysics and a valuable reference for practising geophysicists geologists hydrologists archaeologists and civil and geotechnical engineers Seismic Hazard Analyses, Wave Propagation and Site Characterization Abhishek Kumar,Rajib Sarkar,B.K. Maheshwari,2025-09-01 This book will present the select proceedings of the 8th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics 8ICRAGEE held at the Indian Institute of Technology IIT Guwahati between December 11 and 14 2024 It contains the latest research papers covering the contributions and accomplishments in geotechnical earthquake engineering and soil dynamics in the last four years The five volumes of the book cover a wide range of topics including but not limited to seismic hazard analysis wave propagation and site characterization dynamic properties and liquefaction of soils pile foundations offshore foundations seismic design of retaining structures and dams seismic slope stability and landslides dynamic soil structure interaction seismic design of structures Further recent developments on these topics are covered in different chapters This book will be valuable not only for researchers and professionals but also for drawing an agenda for future courses of action from the perspective of geotechnical earthquake engineering keeping the national need at the forefront *Acquisition and Analysis of Terrestrial Gravity Data* Leland Timothy Long,Ronald Douglas Kaufmann,2013-01-17 A one stop manual for graduate students and professionals combining introductory gravity survey procedures with full explanations of analysis techniques *Seismic Ambient Noise* Nori Nakata,Lucia Gualtieri,Andreas Fichtner,2019-03-21 A comprehensive overview of seismic ambient noise covering observations physical origins modelling processing methods and applications in imaging and monitoring

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