



# SURFACE WAVE ANALYSIS FOR NEAR SURFACE APPLICATIONS

— Giancarlo Dal Moro

# Surface Wave Analysis For Near Surface Applications

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## **Surface Wave Analysis For Near Surface Applications:**

**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 G. 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 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

**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

**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 Geophysics**, 2009 **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 *A Study on the Benefits of Including Near-field Effects in Active-source Surface Wave Data Collection and Interpretation* Thompson McCaskill, 2014

Geotechnical analyses for earthquake engineering and other applications are often predicated on the accurate determination of shear wave velocity VS profiles Surface wave methods SWM are a noninvasive approach to developing VS profiles that involve measurement of Rayleigh

wave propagation between a wave generating source and a receiver array placed on the ground surface. There are several variations of SWM but all utilize the same three step process for developing a VS profile namely 1 data collection measuring ground surface vibrations emanating from a source 2 data processing developing an experimental dispersion curve relating wave velocity to wavelength or frequency and 3 inversion finding the VS profile that produces a theoretical dispersion curve matching the experimental dispersion curve. In current practice the theoretical model used to fit the experimental data is a far field model that only simulates motions from planar Rayleigh waves. Therefore the receiver array used to collect the data in step 1 must be located far from the source or far field where body waves have largely dissipated due to greater damping and Rayleigh wavefronts are nearly planar. Closer to the source in the so called nearfield the ground motion includes coupled interactions of body waves and non planar Rayleigh waves and is inconsistent with a far field theoretical model. The primary objective of this study was to investigate the effectiveness and potential benefits of including near field contributions in both the surface wave data collection and modeling. First it was hypothesized that source offset distance criteria currently used to mitigate near field effects could be greatly reduced without affecting the quality of surface wave results. Second it was hypothesized that additional information about the soil profile could be determined if the near field portion of the dispersion curve was included in both the data collection and theoretical modeling. Three different studies were performed for this research namely 1 a preliminary sensitivity study to study the sensitivity of the near field portion of the dispersion curve to changes in various profile parameters 2 surface wave analysis using simulated experimental data to assess both profile recovery effectiveness and the possibility of inferring additional profile parameters specifically Poisson's ratio and 3 surface wave analysis with real data to validate the profile findings from the study using simulated data. Experimental data were collected and or simulated using both the Spectral Analysis of Surface Waves SASW method and multi channel surface wave methods but the primary focus of this study was on the SASW method. The results from the study showed that surface wave analyses that included near field contributions in both data collection and theoretical modeling were as effective or more effective at recovering the VS profile as conventional far field approaches with the benefit of shorter arrays and smaller sources. This study also showed that surface wave measurements that included near field data were sensitive to changes in Poisson's ratio of the profile as compared with the known insensitivity of conventional far field surface wave methods. The results from the limited experimental study were less conclusive but generally confirmed the findings from the study performed using simulated data.

Surface Waves in Geomechanics: Direct and Inverse Modelling for Soils and Rocks Carlo G. Lai, Krzysztof Wilmanski, 2007-03-23

Theories of surface waves develop since the end of XIX century and many fundamental problems like existence phase and group velocities attenuation quality factor mode conversion etc have been in part successfully solved within the framework of such simple models as ideal fluids or linear elasticity. However a sufficiently complete presentation of this subject particularly for solids is still missing in the literature. The sole exception is the book of I

A Viktorov which contains an extensive discussion of fundamental properties of surface waves in homogeneous and stratified linear elastic solids with particular emphasis on contributions of Russian scientists Unfortunately the book has never been translated to English and its Russian version is also hardly available Practical applications of surface waves develop intensively since a much shorter period of time than theories even though the motivation of discoverers of surface waves such as Lord Rayleigh stems from their appearance in geophysics and seismology Nowadays the growing interest in practical applications of surface waves stem from the following two main factors surface waves are ideal for developing relatively cheap and convenient methods of nondestructive testing of various systems spanning from nanomaterials e g

*Proceedings of the Symposium on the Application of Geophysics to Engineering and Environmental Problems* ,1999

The Leading Edge ,2009      *Exploration Geophysics* ,2004      **Surface Waves** Farzad Ebrahimi,2018-05-02 Surface waves have drawn a significant attention and interest in the recent years in a broad range of commercial applications while their commercial developments have been supported by fundamental and applied research studies This book is a result of contributions of experts from international scientific community working in different aspects of surface waves and reports on the state of the art research and development findings on this topic through original and innovative research studies It contains up to date publications of leading experts and the edition is intended to furnish valuable recent information to the professionals involved in surface wave analysis and applications The text is addressed not only to researchers but also to professional engineers students and other experts in various disciplines both academic and industrial seeking to gain a better understanding of what has been done in the field recently and what kind of open problems are in this area      **Transactions** American Geophysical Union,1930      **Comprehensive Dissertation Index, 1861-1972: Geography and geology** Xerox University Microfilms,1973      Spectral Analysis in Geophysics B.M. B  th,1974 Spectral Analysis in Geophysics

*Transportation Research Record* ,2003      **Data Resources for National Transportation Decision Making 1990** ,1990      *Reprint B.* Bell Telephone Laboratories,1929      Bell Telephone Laboratories Reprints ,1929      Bell Telephone System Technical Publications Bell Telephone Laboratories,1929

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