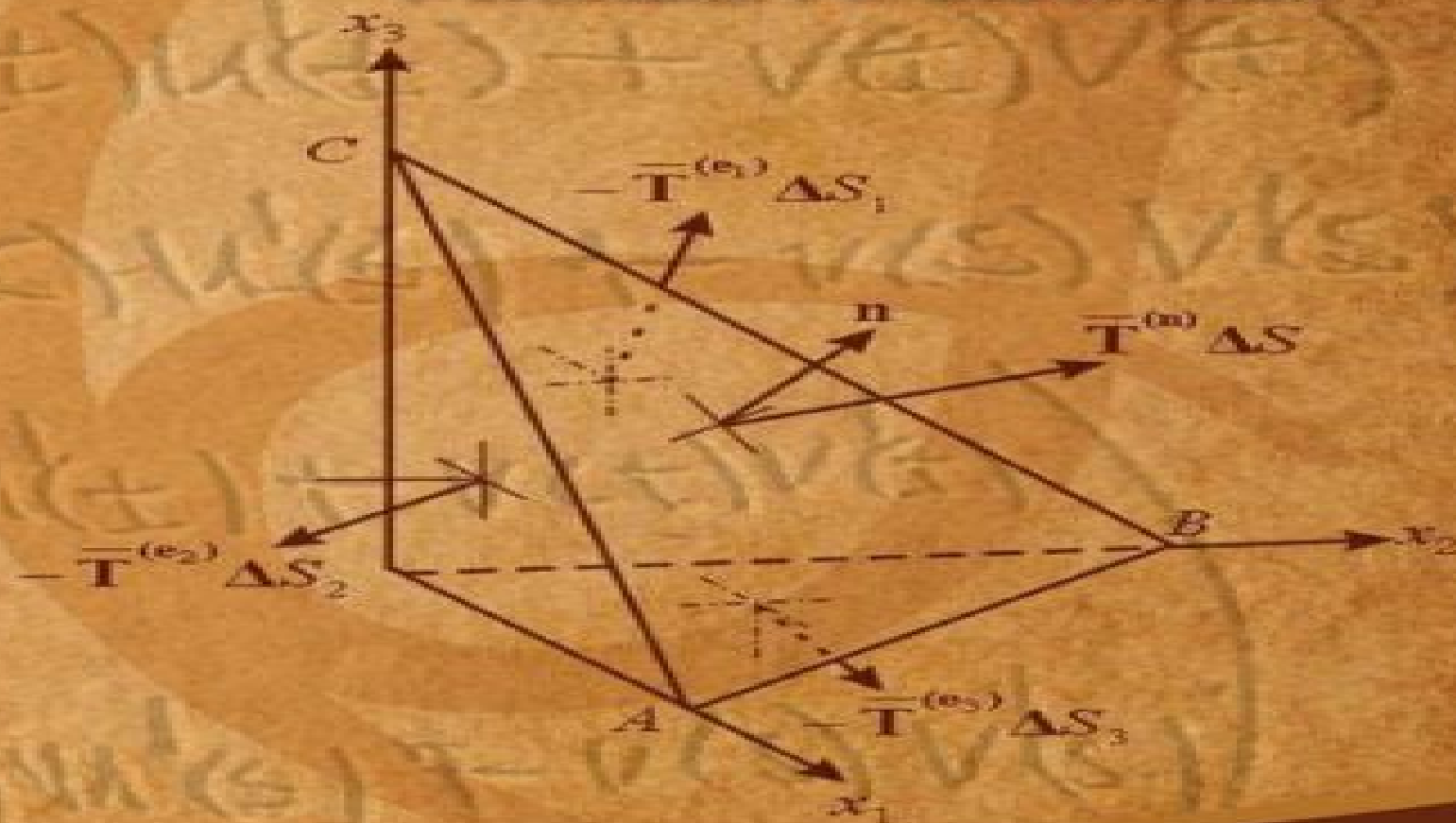


WAVES AND RAYS IN ELASTIC CONTINUA

Michael A. Slawinski



World Scientific

Waves And Rays In Elastic Continua

Stanford University



Waves And Rays In Elastic Continua:

Waves and Rays in Elastic Continua Michael A. Slawinski, 2010 This is the second edition of the textbook that was first published by Elsevier Science Professor Slawinski has the copyright to the textbook and the second edition is significantly extended The present book emphasizes the interdependence of mathematical formulation and physical meaning in the description of seismic phenomena Herein we use aspects of continuum mechanics wave theory and ray theory to explain phenomena resulting from the propagation of seismic waves The book is divided into three main sections elastic continua waves and rays and variational formulation of rays There is also a fourth part which consists of appendices In Part 1 we use continuum mechanics to describe the material through which seismic waves propagate and to formulate a system of equations to study the behaviour of such a material In Part 2 we use these equations to identify the types of body waves propagating in elastic continua as well as to express their velocities and displacements in terms of the properties of these continua To solve the equations of motion in anisotropic inhomogeneous continua we use the high frequency approximation and hence establish the concept of a ray In Part 3 we show that in elastic continua a ray is tantamount to a trajectory along which a seismic signal propagates in accordance with the variational principle of stationary traveltime Consequently many seismic problems in elastic continua can be conveniently formulated and solved using the calculus of variations In Part 4 we describe two mathematical concepts that are used in the book namely homogeneity of a function and Legendre's transformation This section also contains a list of symbols

Waves And Rays In Elastic Continua (3rd Edition) Michael A Slawinski, 2014-12-15 The present book which is the third significantly revised edition of the textbook originally published by Elsevier Science emphasizes the interdependence of mathematical formulation and physical meaning in the description of seismic phenomena Herein we use aspects of continuum mechanics wave theory and ray theory to explain phenomena resulting from the propagation of seismic waves The book is divided into three main sections Elastic Continua Waves and Rays and Variational Formulation of Rays There is also a fourth part which consists of appendices In Elastic Continua we use continuum mechanics to describe the material through which seismic waves propagate and to formulate a system of equations to study the behaviour of such a material In Waves and Rays we use these equations to identify the types of body waves propagating in elastic continua as well as to express their velocities and displacements in terms of the properties of these continua To solve the equations of motion in anisotropic inhomogeneous continua we invoke the concept of a ray In Variational Formulation of Rays we show that in elastic continua a ray is tantamount to a trajectory along which a seismic signal propagates in accordance with the variational principle of stationary traveltime Consequently many seismic problems in elastic continua can be conveniently formulated and solved using the calculus of variations In the Appendices we describe two mathematical concepts that are used in the book namely homogeneity of a function and Legendre's transformation This section also contains a list of symbols

Seismic Waves and Rays in Elastic Media M.A. Slawinski, 2003-08-04 This book

seeks to explore seismic phenomena in elastic media and emphasizes the interdependence of mathematical formulation and physical meaning. The purpose of this title, which is intended for senior undergraduate and graduate students as well as scientists interested in quantitative seismology, is to use aspects of continuum mechanics, wave theory, and ray theory to describe phenomena resulting from the propagation of waves. The book is divided into three parts: Elastic continua, Waves and rays, and Variational formulation of rays. In Part I, continuum mechanics are used to describe the material through which seismic waves propagate and to formulate a system of equations to study the behaviour of such material. In Part II, these equations are used to identify the types of body waves propagating in elastic continua as well as to express their velocities and displacements in terms of the properties of these continua. To solve the equations of motion in anisotropic inhomogeneous continua, the high frequency approximation is used and establishes the concept of a ray. In Part III, it is shown that in elastic continua a ray is tantamount to a trajectory along which a seismic signal propagates in accordance with the variational principle of stationary travel time.

Waves And Rays In Elastic Continua (Fourth Edition) Michael A Slawinski, 2020-09-24

Seismology as a branch of mathematical physics is an active subject of both research and development. Its reliance on computational and technological advances continuously motivates the developments of its underlying theory. The fourth edition of *Waves and Rays in Elastic Continua* responds to these needs. The book is both a research reference and a textbook. Its careful and explanatory style, which includes numerous exercises with detailed solutions, makes it an excellent textbook for the senior undergraduate and graduate courses as well as for an independent study. Used in its entirety, the book could serve as a sole textbook for a year-long course in quantitative seismology. Its parts, however, are designed to be used independently for shorter courses with different emphases. The book is not limited to quantitative seismology; it can serve as a textbook for courses in mathematical physics or applied mathematics.

Waves And Rays In Seismology: Answers To Unasked Questions (Second Edition) Michael A Slawinski, 2018-05-04

In summary, Professor Slawinski has written an engaging volume covering an unfamiliar topic in a highly accessible fashion. Non-specialists will gain a significant appreciation of the unique complexities associated with seismology. Contemporary Physics. The author dedicates this book to readers who are concerned with finding out the status of concepts, statements, and hypotheses and with clarifying and rearranging them in a logical order. It is thus not intended to teach tools and techniques of the trade but to discuss the foundations on which seismology and, in a larger sense, the theory of wave propagation in solids is built. A key question is why and to what degree can a theory developed for an elastic continuum be used to investigate the propagation of waves in the Earth, which is neither a continuum nor fully elastic. But the scrutiny of the foundations goes much deeper: material symmetry, effective tensors, equivalent media, the influence or rather the lack thereof of gravitational and thermal effects, and the rotation of the Earth are discussed *ab initio*. The variational principles of Fermat and Hamilton and their consequences for the propagation of elastic waves, causality, Noether's theorem, and its consequences on conservation of energy and conservation

of linear momentum are but a few topics that are investigated in the process to establish seismology as a science and to investigate its relation to subjects like realism and empiricism in natural sciences to the nature of explanations and predictions and to experimental verification and refutation In the second edition new sections figures examples exercises and remarks are added Most importantly however four new appendices of about one hundred pages are included which can serve as a self contained continuum mechanics course on finite elasticity Also they broaden the scope of elasticity theory commonly considered in seismology

Waves And Rays In Seismology: Answers To Unasked Questions (Third Edition) Michael A Slawinski, 2020-11-20 This is a book on seismology dealing with advanced aspects of wave propagation in complex media It can also be viewed as a book on mathematical modelling wherein the accuracy of describing seismic phenomena exemplifies the modelling itself The book gives an insight into the power of abstractness by applying the same mathematical methods and strategies to solve a variety of different physical problems This book covers a broad range of topics in an advanced yet accessible manner Each chapter is accompanied by a number of solved exercises which render the book convenient for a lecturer and facilitate its use for an independent study The details of mathematical methods are discussed in the appendices which form a substantial portion of the book

Fundamentals of Ultrasonic Nondestructive Evaluation Lester W. Schmerr Jr., 2016-04-30 This extensively revised and updated second edition of a widely read classic presents the use of ultrasound in nondestructive evaluation NDE inspections Retaining the first edition's use of wave propagation scattering theory and linear system theory this volume also adds significant new material including the introduction of MATLAB functions and scripts that evaluate key results involving beam propagation and scattering flaw sizing and the modeling of ultrasonic systems elements of Gaussian beam theory and a multi Gaussian ultrasonic beam model for bulk wave transducers a new chapter on the connection between ultrasonic modeling and probability of detection POD and reliability models new and improved derivations of ultrasonic measurement models updated coverage of ultrasonic simulators that have been developed around the world Students engineers and researchers working in the ultrasonic NDE field will find a wealth of information on the modeling of ultrasonic inspections and the fundamental ultrasonic experiments that support those models in this new edition

Applied Mechanics Reviews, 1995 **U.S. Government Research Reports**, 1964 *Courses and Degrees* Stanford University, 1985 **BTL Talks and Papers** Bell Telephone Laboratories. Technical Information Libraries, 1967 **Seismic**

Waves and Rays in Elastic Media M.A. Slawinski, 2003-08-18 This book seeks to explore seismic phenomena in elastic media and emphasizes the interdependence of mathematical formulation and physical meaning The purpose of this title which is intended for senior undergraduate and graduate students as well as scientists interested in quantitative seismology is to use aspects of continuum mechanics wave theory and ray theory to describe phenomena resulting from the propagation of waves The book is divided into three parts Elastic continua Waves and rays and Variational formulation of rays In Part I continuum mechanics are used to describe the material through which seismic waves propagate and to formulate a system of

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Inverse Problems of Wave Propagation and Diffraction Guy Chavent,Pierre Célestin Sabatier,1997-06-19 This book describes the state of the art in the field of modeling and solving numerically inverse problems of wave propagation and diffraction It addresses mathematicians physicists and engineers as well Applications in such fields as acoustics optics and geophysics are emphasized Of special interest are the contributions to two and three dimensional problems without reducing symmetries Topics treated are the obstacle problem scattering by classical media and scattering by distributed media *Science Abstracts* ,1965

International Aerospace Abstracts ,1995 **Non-destructive Testing** J. M. Farley,R. W. Nichols,1988 Bulletin of the Academy of Sciences of the U.S.S.R. Akademii nauk SSSR.,1964 **Bulletin of the Academy of Sciences of the U.S.S.R.** Akademiia nauk SSSR,1964 Bulletin Rensselaer Polytechnic Institute,1967 Includes its Catalogue

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