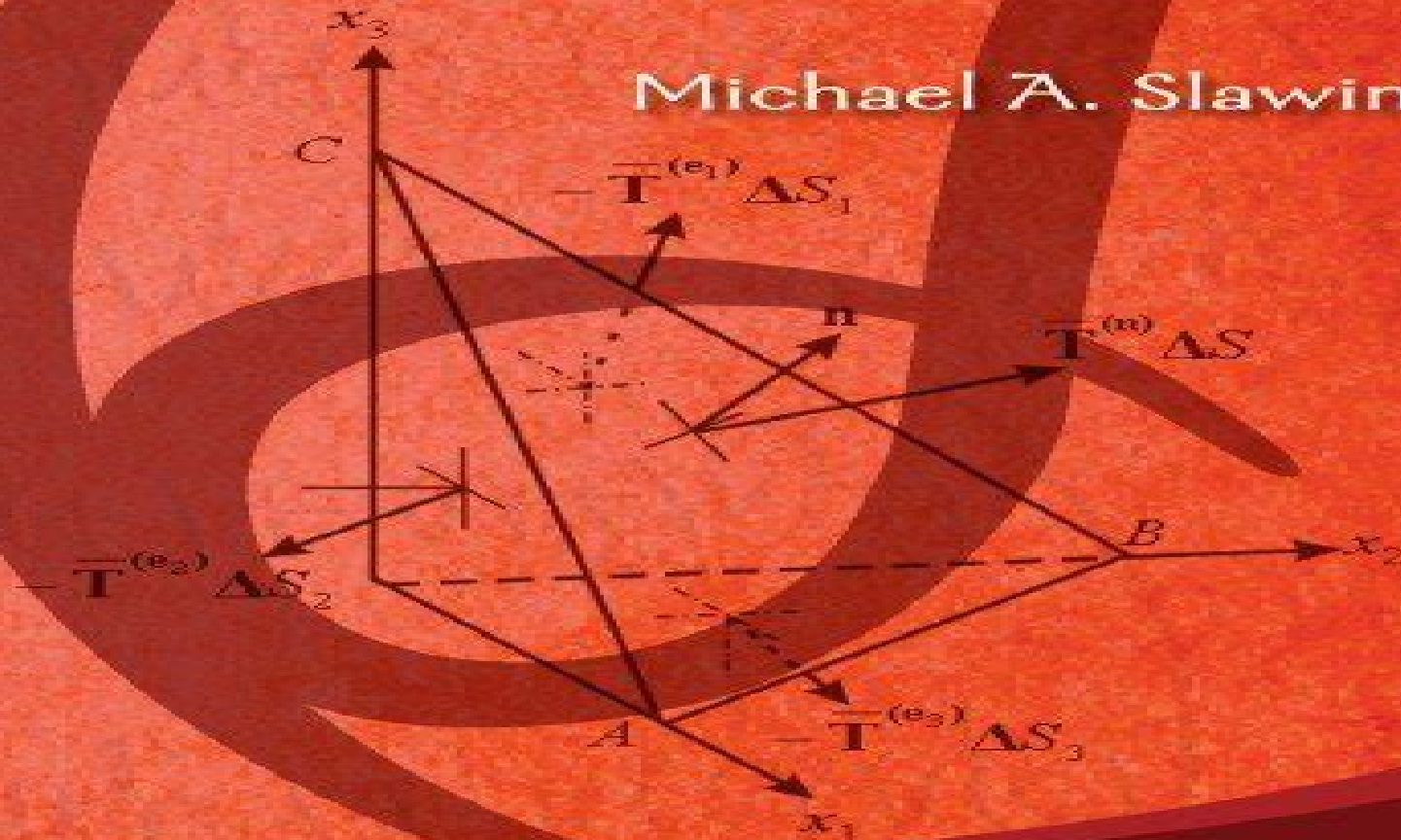


WAVES AND RAYS IN ELASTIC CONTINUA

Fourth Edition

Michael A. Slawinski



World Scientific

Waves And Rays In Elastic Continua

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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

Wavefronts And Rays As Characteristics And Asymptotics (Third Edition) Andrej Bona, Michael A Slawinski, 2020-09-24 Characteristics and asymptotics of partial differential equations play an important role in mathematical physics since they lead to insightful solutions of complex problems that might not be solvable otherwise They constitute however a difficult subject and the purpose of this book with its additions and refinements that led to its third edition is to present this subject in an accessible manner without decreasing the rigor As any method characteristics and asymptotics have their limitations This important issue is addressed in the last chapter where we discuss caustics which must be understood in applications of the method and which constitute a fertile ground for further mathematical research 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 senior undergraduate and graduate courses as well as for independent studies Six appendices are provided which form a self contained course on applied mathematics and can be used as a textbook on its own

Viscoelastic Waves and Rays in Layered Media Roger Borchardt, 2020-10-22 A rigorous self contained exposition of the mathematical theory for wave propagation and general ray theory in layered viscoelastic media

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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 *Seismic Wave Theory* Edward S. Krebs, 2019-03-28 Perfect for senior undergraduates and first year graduate students in geophysics physics mathematics geology and engineering this book is devoted exclusively to seismic wave theory The result is an invaluable teaching tool with its detailed derivations of formulas clear explanations of topics exercises along with selected answers and an additional set of exercises with derived answers on the book's website Some highlights of the text include a review of vector calculus and Fourier transforms and an introduction to tensors which prepare readers for the chapters to come and a detailed discussion on computing reflection and transmission coefficients a topic of wide interest in the field a discussion in later chapters of plane waves in anisotropic and anelastic media which serves as a useful introduction to these two areas of current research in geophysics Students will learn to understand seismic wave theory through the book's clear and concise pedagogy

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