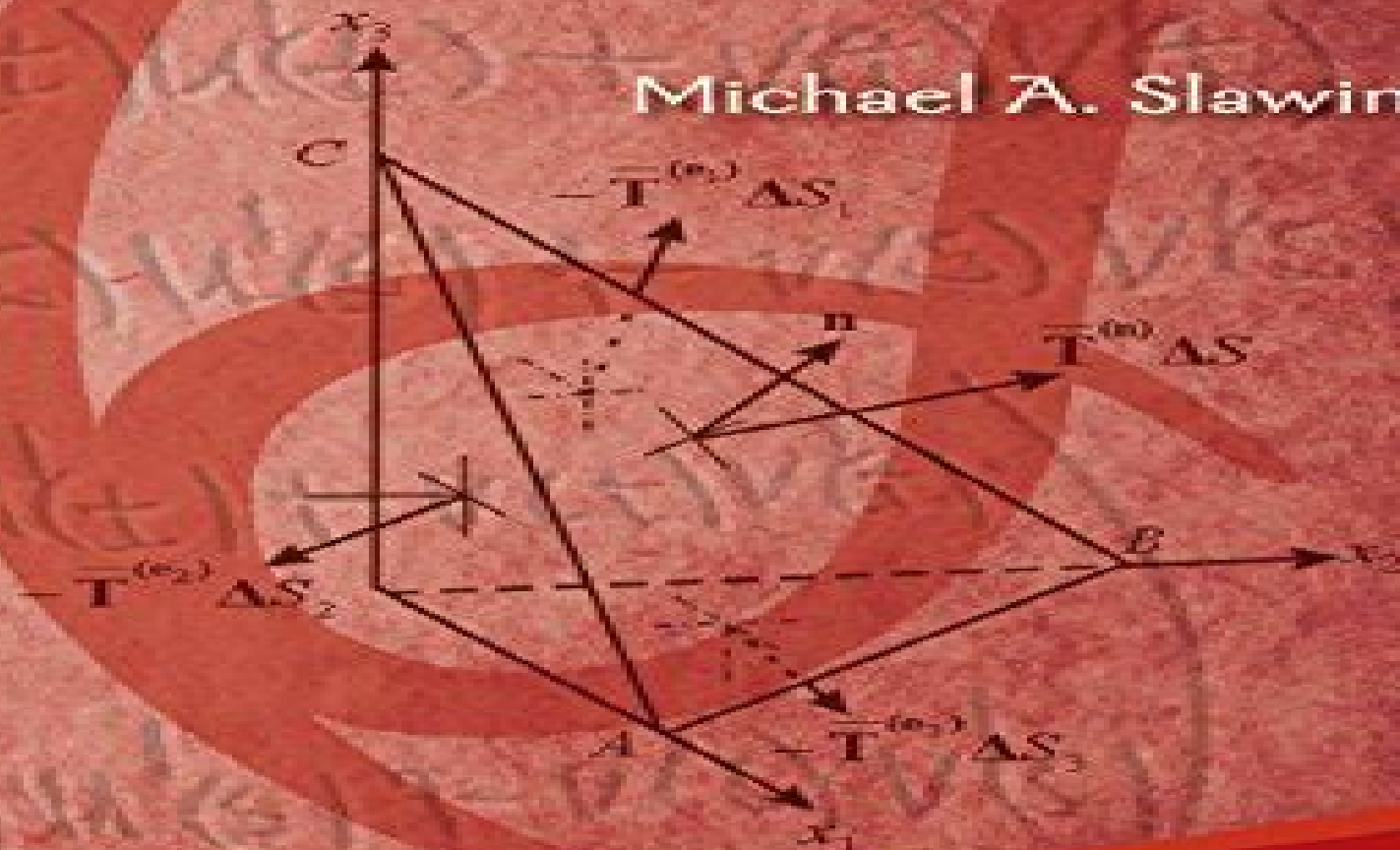


# WAVES AND RAYS IN ELASTIC CONTINUA

Third Edition

Michael A. Slawinski



World Scientific

# Waves And Rays In Elastic Continua 3rd Edition

**Ying-Ying Zheng**



### **Waves And Rays In Elastic Continua 3rd Edition:**

*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

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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 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**

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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 *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

**Understanding Downhole Microseismic Data Analysis** Jubran Akram, 2020-01-01 This book is designed as an excellent resource text for students and professionals providing an in depth overview of the theory and applications of downhole microseismic monitoring of hydraulic fracturing The readers will benefit greatly from the detailed explanation on the processes and workflows involved in the acquisition design modeling processing and interpretation of microseismic data

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Forthcoming Books Rose Arny, 1990 **The New Encyclopaedia Britannica**, 1987 **International Physics &**

**Astronomy Directory**, 1969 Intended as a comprehensive current source of professional information for the use of physicists and astronomers Faculty and brief biographical data listed under institutions which are arranged alphabetically Data about laboratories international organizations societies meetings financial support awards research and books and journals Faculty index Geographical index of universities and colleges Micromechanics of Fracture in Generalized Spaces Ihar Alaksandravich Miklashevich, 2008-01-08 By the detailed analysis of the modern development of the mechanics of deformable media can be found the deep internal contradiction From the one hand it is declared that the deformation and fracture are the hierarchical processes which are linked and unite several structural and scale levels From the other hand the sequential investigation of the hierarchy of the deformation and destruction is not carried out The book's aim is filling this mentioned gap and investigates the hot topic of the fracture of non ideal media From the microscopic point of view in the book we study the hierarchy of the processes in fractured solid in the whole diapason of practically used scales According the multilevel hierarchical system ideology under microscopic we understand taking into account the processes on the level

lower than relative present strata From hierarchical point of view the conception of microscopic fracture can be soundly applied to the traditionally macroscopic area namely geomechanics or main crack propagation At the same time microscopic fracture of the nanomaterials can be well grounded too This ground demands the investigation on the level of inter atomic interaction and quantum mechanical description The important feature of the book is the application of fibred manifolds and non Euclidean spaces to the description of the processes of deformation and fracture in inhomogeneous and defected continua The non Euclidean spaces for the dislocations description were introduced by J F Nye B A Bilby E Kröner K Kondo in fiftieth In last decades this necessity was shown in geomechanics and theory of seismic signal propagation The applications of non Euclidean spaces to the plasticity allow us to construct the mathematically satisfying description of the processes Taking into account this space expansion the media with microstructure are understood as Finsler space media The bundle space technique is used for the description of the influence of microstructure on the continuum metrics The crack propagation is studied as a process of movement in Finsler space Reduction of the general description to the variational principle in engineering case is investigated and a new result for the crack trajectory in inhomogeneous media is obtained Stability and stochastization of crack trajectory in layered composites is investigated The gauge field is introduced on the basis of the structure representation of Lie group generated by defects without any additional assumption Effective elastic and non elastic media for nanomaterials and their geometrical description are discussed The monograph provides the basis for more detailed and exact description of real processes in the material The monograph will be interesting for the researchers in the field of fracture mechanics solid state physics and geomechanics It can be used as well by the last year students wishing to become more familiar with some modern approaches to the physics of fracture and continual theory of dislocations In Supplement written by V V Barkaline quantum mechanical concept of physical body wholeness according to H Primas is discussed with relation to fracture Role of electronic subsystem in fracture dynamics in adiabatic and non adiabatic approximations is clarified Potential energy surface of ion subsystem accounting electron contribution is interpreted as master parameter of fracture dynamics Its features and relation to non euclidean metrics of defected solid body is discussed Quantum mechanical criteria of fracture arising are proposed

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