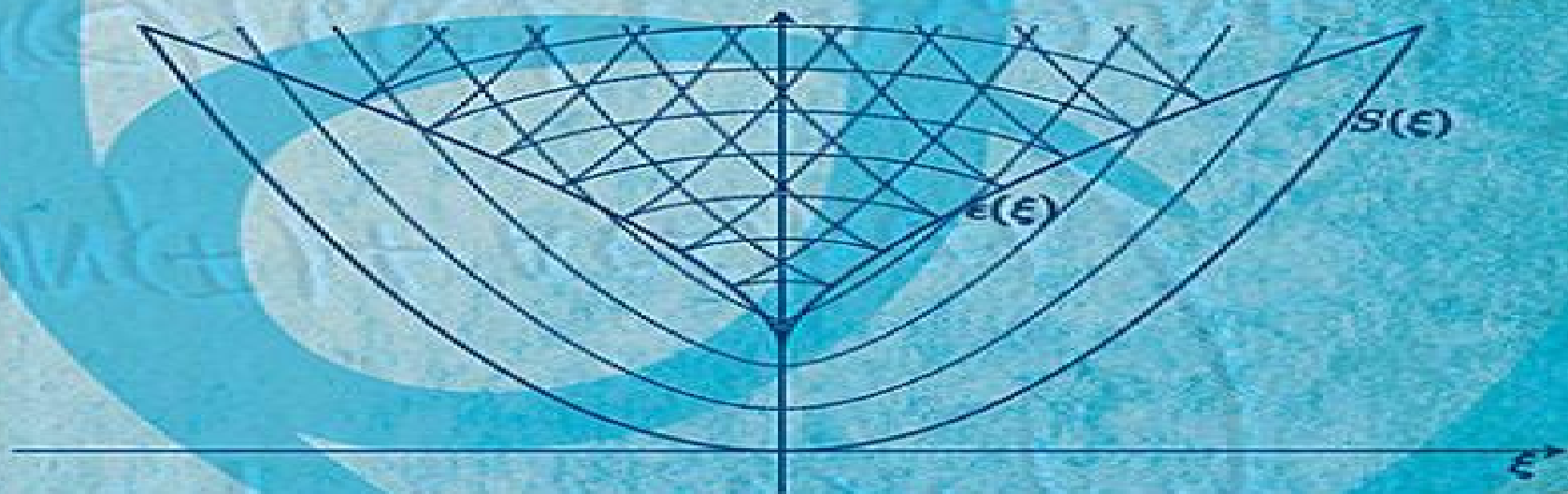


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Second Edition

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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

Wavefronts And Rays As Characteristics And Asymptotics (2nd Edition) Michael A Slawinski, Andrej Bona, 2014-12-30 This textbook incorporated with many illuminating examples and exercises is aimed at graduate students of physical sciences and engineering The purpose is to provide a background of physics and underlying mathematics for the concept of rays filling the gap between mathematics and physics textbooks for a coherent treatment of all topics The authors emphasis and extremely good presentation of the theory of characteristics which defines the rays accentuate the beauty and versatility of this theory To this end the rigour of the formulation by a pure mathematician s standards is downplayed to highlight the physical meaning and to make the subject accessible to a wider audience The authors describe in detail the theory of characteristics for different types of differential equations the applications to wave propagation in different types of media and phenomena such as caustics

Waves And Rays In Seismology: Answers To Unasked Questions Michael A Slawinski, 2016-07-28 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.

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 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

Asymptotic and Hybrid Methods in Electromagnetics I. Andronov, F. Molinet, D. Bouche, 2005-07-18 Asymptotic methods provide considerable physical insight and understanding of diffraction mechanisms and are very useful in the design of electromagnetic devices such as radar targets and antennas However difficulties can arise when trying to solve problems using multipole and asymptotic methods together such as in radar crosssection objects This new book offers a solution to this problem by combining these approaches into hybrid methods therefore creating high demand for both understanding and learning how to apply asymptotic and hybrid methods to solve diffraction problems

On Foundations Of Seismology: Bringing Idealizations Down To Earth James Robert Brown, Michael A Slawinski, 2017-04-27 I can wholeheartedly recommend this book students researchers college and university science professors and readers of The Leading Edge I also recommend it to all those who want to enrich their own experience of practicing and teaching science with some carefully considered soul searching on how it all fits together in the human story of figuring things out It is written throughout with precise and careful language prudently paced carefully crafted eloquently enunciated and playfully illuminated The Leading Edge This remarkable collaboration between a mathematical physicist and a science philosopher concerns foundational and conceptual issues in seismology Their aim is to present mathematical physical and philosophical topics in a clear and concise manner They provide an extensive philosophical discussion of the methods of science and show how seismology fits in They explain with care and precision the basic structure of seismology which is built on classical continuum mechanics Not only do they explain how various models work in seismology they also include an extensive discussion of the nature of models and idealizations

Physics Avoidance Mark Wilson, 2017-10-20 Mark Wilson presents a series of explorations of our strategies for understanding the world Physics avoidance refers to the fact that we frequently cannot reason about nature in the straightforward manner we anticipate but must seek alternative policies that allow us to address the questions we want answered in a tractable way Within both science and everyday life we find ourselves relying upon thought processes that reach useful answers in opaque and roundabout manners Conceptual innovators are often puzzled by the techniques they develop when they stumble across reasoning patterns that are easy to implement but difficult to justify But simple techniques frequently rest upon complex foundations a young magician learns how to execute a card guessing trick without understanding how its progressive steps squeeze in on a proper answer As we collectively improve our inferential skills in this gradually evolving manner we often wander into unfamiliar explanatory landscapes in which simple words encode physical information in complex and unanticipated ways Like our juvenile conjurer we fail to recognize the true strategic rationales underlying our achievements and may turn instead to preposterous rationalizations for our policies We have learned how to reach better conclusions in a more fruitful way but we remain baffled by our own successes At its best philosophical reflection illuminates the natural developmental processes that generate these confusions and explicates their

complexities But current thinking within philosophy of science and language works to opposite effect by relying upon simplistic conceptions of cause law of nature possibility and reference that ignore the strategic complexities in which these concepts become entangled within real life usage To avoid these distortions better descriptive tools are wanted The nine new essays within this volume illustrate this need for finer discriminations through a range of revealing cases of both historical and contemporary significance

Singular Perturbations and Asymptotics Richard E. Meyer, Seymour V. Parter, 2014-05-10

Mathematics Research Center Symposia and Advanced Seminar Series Singular Perturbations and Asymptotics covers the lectures presented at an Advanced Seminar on Singular Perturbation and Asymptotics held in Madison Wisconsin on May 28 30 1980 under the auspices of the Mathematics Research Center of the University of Wisconsin Madison The book focuses on the processes methodologies reactions and principles involved in singular perturbations and asymptotics including boundary value problems equations perturbations water waves and gas dynamics The selection first elaborates on basic concepts in the analysis of singular perturbations limit process expansions and approximate equations and results on singularly perturbed boundary value problems Discussions focus on quasi linear and nonlinear problems semilinear systems water waves expansion in gas dynamics asymptotic matching principles and classical perturbation analysis The text then takes a look at multiple solutions of singularly perturbed systems in the conditionally stable case and singular perturbations stochastic differential equations and applications The book ponders on connection problems in the parameterless case general connection formula problem for linear differential equations of the second order and turning point problems for ordinary differential equations of hydrodynamic type Topics include the comparison equation method boundary layer flows compound matrix method asymptotic solution of the connection formula problem and higher order equations The selection is a valuable source of information for researchers interested in singular perturbations and asymptotics

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