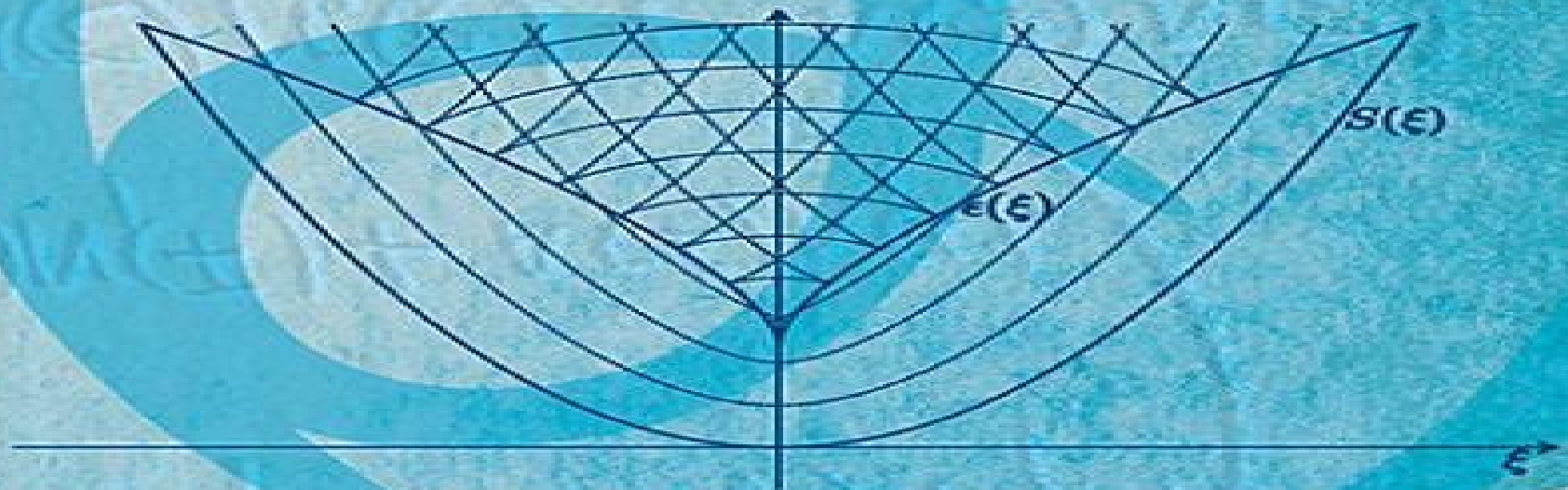


WAVEFRONTS AND RAYS AS CHARACTERISTICS AND ASYMPTOTICS

Second Edition

Andrej Bóna
Michael A. Slawinski



Wavefronts And Rays As Characteristics And Asymptotics 2nd 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 Andrej Bóna, Michael A. Slawinski, 2014

Wavefronts and Rays as Characteristics and Asymptotics Andrej Bóna, Michael A. Slawinski, 2011

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 emphasize 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 the phenomena such as caustics.

Wavefronts and Rays as Characteristics and Asymptotics (Third Edition) Andrej Bona, Michael A. Slawinski, 2020-09-14

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.

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

An Introduction to Geometrical Physics Aldrovandi Ruben, Pereira Jose Geraldo, 2016-10-07 This book focuses on the unifying power of the geometrical language in bringing together concepts from many different areas of physics ranging from classical physics to the theories describing the four fundamental interactions of Nature gravitational electromagnetic strong nuclear and weak nuclear The book provides in a single volume a thorough introduction to topology and differential geometry as well as many applications to both mathematical and physical problems It is aimed as an elementary text and is intended for first year graduate students In addition to the traditional contents of books on special and general relativities this book discusses also some recent advances such as de Sitter invariant special relativity teleparallel gravity and their implications in cosmology for those wishing to reach a higher level of understanding

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

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

Wavefronts and Rays as Characteristics and Asymptotics Andrej Bã³na, Michael A Slawinski, 2011-05-09 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 the phenomena such as caustics

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

Singularities of Caustics and Wave Fronts Vladimir

Arnold,2013-12-01 One service mathematics has rendered the Et moi si j'avait su comment en revenir human race It has put common sense back je n'y serais point aile Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded non The series is divergent therefore we may be sense ErieT Bell able to do something with it O Heaviside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound

Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered computer science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d'être of this series

Surveys in Applied Mathematics

Joseph B. Keller,David W. McLaughlin,George C. Papanicolaou,2013-12-21 Partial differential equations play a central role in many branches of science and engineering Therefore it is important to solve problems involving them One aspect of solving a partial differential equation problem is to show that it is well posed i.e. that it has one and only one solution and that the solution depends continuously on the data of the problem Another aspect is to obtain detailed quantitative information about the solution The traditional method for doing this was to find a representation of the solution as a series or integral of known special functions and then to evaluate the series or integral by numerical or by asymptotic methods The shortcoming of this method is that there are relatively few problems for which such representations can be found Consequently the traditional method has been replaced by methods for direct solution of problems either numerically or asymptotically This article is devoted to a particular method called the ray method for the asymptotic solution of problems for linear partial differential equations governing wave propagation These equations involve a parameter such as the wavelength which is small compared to all other lengths in the problem The ray method is used to construct an asymptotic expansion of the solution which is valid near 0 or equivalently for $k \rightarrow \infty$

Energy Methods in Dynamics Khanh Chau Le,Lu Trong Khiem

Nguyen,2014-07-08 Energy Methods in Dynamics is a textbook based on the lectures given by the first author at Ruhr University Bochum Germany Its aim is to help students acquire both a good grasp of the first principles from which the governing equations can be derived and the adequate mathematical methods for their solving Its distinctive features as seen from the title lie in the systematic and intensive use of Hamilton's variational principle and its generalizations for deriving the governing equations of conservative and dissipative mechanical systems and also in providing the direct variational asymptotic analysis whenever available of the energy and dissipation for the solution of these equations It demonstrates that

many well known methods in dynamics like those of Lindstedt Poincare Bogoliubov Mitropolsky Kolmogorov Arnold Moser KAM Wentzel Kramers Brillouin WKB and Whitham are derivable from this variational asymptotic analysis This second edition includes the solutions to all exercises as well as some new materials concerning amplitude and slope modulations of nonlinear dispersive waves Treatise on Geophysics ,2015-04-17 Treatise on Geophysics Second Edition is a comprehensive and in depth study of the physics of the Earth beyond what any geophysics text has provided previously Thoroughly revised and updated it provides fundamental and state of the art discussion of all aspects of geophysics A highlight of the second edition is a new volume on Near Surface Geophysics that discusses the role of geophysics in the exploitation and conservation of natural resources and the assessment of degradation of natural systems by pollution Additional features include new material in the Planets and Moon Mantle Dynamics Core Dynamics Crustal and Lithosphere Dynamics Evolution of the Earth and Geodesy volumes New material is also presented on the uses of Earth gravity measurements This title is essential for professionals researchers professors and advanced undergraduate and graduate students in the fields of Geophysics and Earth system science Comprehensive and detailed coverage of all aspects of geophysics Fundamental and state of the art discussions of all research topics Integration of topics into a coherent whole

Surveys in Applied Mathematics Mark I. Freidlin,Sergey Gredeskul,John K. Hunter,Andrew Marchenko,Leonid Pastur,2012-12-06 Volume 2 offers three in depth articles covering significant areas in applied mathematics research Chapters feature numerous illustrations extensive background material and technical details and abundant examples The authors analyze nonlinear front propagation for a large class of semilinear partial differential equations using probabilistic methods examine wave localization phenomena in one dimensional random media and offer an extensive introduction to certain model equations for nonlinear wave phenomena **Fundamentals of Acoustics** Michel Bruneau,2013-03-01 The

central theme of the chapters is acoustic propagation in fluid media dissipative or non dissipative homogeneous or nonhomogeneous infinite or limited placing particular emphasis on the theoretical formulation of the problems considered

Digest IEEE Antennas and Propagation Society. International Symposium,1992 Introduction to Petroleum Seismology, second edition Luc T. Ikelle ,Lasse Amundsen,2018-03-26 Introduction to Petroleum Seismology second edition SEG Investigations in Geophysics Series No 12 provides the theoretical and practical foundation for tackling present and future challenges of petroleum seismology especially those related to seismic survey designs seismic data acquisition seismic and EM modeling seismic imaging microseismicity and reservoir characterization and monitoring All of the chapters from the first edition have been improved and or expanded In addition twelve new chapters have been added These new chapters expand topics which were only alluded to in the first edition sparsity representation sparsity and nonlinear optimization near simultaneous multiple shooting acquisition and processing nonuniform wavefield sampling automated modeling elastic electromagnetic mathematical equivalences and microseismicity in the context of hydraulic fracturing Another major

modification in this edition is that each chapter contains analytical problems as well as computational problems These problems include MatLab codes which may help readers improve their understanding of and intuition about these materials The comprehensiveness of this book makes it a suitable text for undergraduate and graduate courses that target geophysicists and engineers as well as a guide and reference work for researchers and professionals in academia and in the petroleum industry *IEEE Antennas and Propagation Society International Symposium*, 1992 *Water Waves and Ship Hydrodynamics* A.J. Hermans, 2010-10-21 In this book an introduction is given to aspects of water waves that play a role in ship hydrodynamics and offshore engineering At first the equations and linearized boundary conditions are derived describing the non viscous free surface water waves with special attention to the combination of steady and non steady flow fields Then some simple kinds of free wave solutions are derived such as plane waves and cylindrical waves For several situations steady and unsteady the source singularity function is derived These functions play a role in numerical codes used to describe the motion of ships and offshore structures These codes are mostly based on a boundary integral formulation therefore we give an introduction to these methods It is shown how first order ship motions can be determined In offshore engineering the second order wave drift motions play an important role An introduction to this phenomenon is given and the effects which have to be taken into account are explained by means of a simple example where we can determine nearly all the aspects analytically An interesting example that is worked out is the motion of very large floating flexible platforms with finite draft Finally an introduction to the theory of shallow water non linear dispersive waves is presented and shallow water ship hydrodynamics that plays a role in coastal areas and channels is treated Here attention is paid to the interaction between passing ships in restricted water In the appendix a short introduction to some of the mathematical tools is given

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