

Hans-Jörg Freidman and Per-Olof Friberg

Physical Problems Solved by the Phase-Integral Method

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Nanny Fröman, Per Olof Fröman



Physical Problems Solved By The Phase Integral Method:

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Boundary Element Methods for Heat Transfer with Phase Change Problems: Theory and Application S. G. Ahmed, 2022-06-30 The mathematical modelling of free and moving boundary problems are an important topic in engineering industry technology and theoretical sciences These models allow us to make calculations involved in phase change transitions of materials due to heat transfer Boundary layer applications are widespread in research and industry Boundary Element Methods for Heat Transfer with Phase Change Problems Theory and Application equips the reader with information about heat transfer problems occurring during phase changes The book covers several boundary element methods including methods for phase changes fixed and moving domains and new approaches The contents are rounded off with chapters on numerical results and industrial applications Key features Simple didactic presentation of boundary layer problems for heat transfer problems Covers a wide range of boundary element methods Includes methods for fixed and moving domains Explains industrial applications of the methods Includes solutions to numerical problems The book serves as a textbook for students of advanced mathematics and engineering It is also a handbook for researchers working on numerical analysis who require a focused volume on boundary element methods for heat transfer applications

An Introduction to Phase-Integral Methods John Heading, 2013-01-01 The phase integral method in mathematics also known as the Wentzel Kramers Brillouin WKB method is the focus of this introductory treatment Author John Heading successfully steers a course between simplistic and rigorous approaches to provide a concise overview for advanced undergraduates and graduate students in mathematics and physics Since the number of applications is vast the text considers only a brief selection of topics and emphasizes the method itself rather than

detailed applications The process once derived is shown to be one of essential simplicity that involves merely the application of certain well defined rules Starting with a historical survey of the problem and its solutions subjects include the Stokes phenomenon one and two transition points and applications to physical problems An appendix and bibliography conclude the text

Quantum Dynamics with Trajectories Robert E. Wyatt,2006-05-28 Remarkable progress has recently been made in the application of quantumtrajectories as the computational tool for solving quantum mechanical problems This is the first book to present these developments in the broader context of the hydrodynamical formulation of quantum dynamics In addition to a thorough discussion of the quantum trajectory equations of motion there is considerable material that deals with phase space dynamics adaptive moving grids electronic energy transfer and trajectories for stationary states On the pedagogical side a number of sections of this book will be accessible to students who have had an introductory quantum mechanics course There is also considerable material for advanced researchers and chapters in the book cover both methodology and applications The book will be useful to students and researchers in physics chemistry applied math and computational dynamics

Algorithmic Combinatorics: Enumerative Combinatorics, Special Functions and Computer Algebra Veronika Pillwein,Carsten Schneider,2020-09-28 The book is centered around the research areas of combinatorics special functions and computer algebra What these research fields share is that many of their outstanding results do not only have applications in Mathematics but also other disciplines such as computer science physics chemistry etc A particular charm of these areas is how they interact and influence one another For instance combinatorial or special functions techniques have motivated the development of new symbolic algorithms In particular first proofs of challenging problems in combinatorics and special functions were derived by making essential use of computer algebra This book addresses these interdisciplinary aspects Algorithmic aspects are emphasized and the corresponding software packages for concrete problem solving are introduced Readers will range from graduate students researchers to practitioners who are interested in solving concrete problems within mathematics and other research disciplines

Processes in GeoMedia—Volume IV Tatiana Chaplina,2021-11-15 This book corresponds to the fourth volume of the series focused on Processes in GeoMedia and their research on the dynamic of natural systems geosphere hydrosphere atmosphere and their interactions the human contribution to naturally occurring processes are among the most urgent and essential scientific problems The widespread introduction of computer technology has allowed calculating complex phenomena previously unavailable for analysis The creation and improvement of a new generation of geophysical instruments remote observing systems based on the ship aircraft and satellite allow obtaining a large amount of data to reflect the broad picture of the processes objectively The articles included in this book also reflect a critical position in laboratory modeling of research in geo environments and testing

Advanced Complex Analysis Barry Simon,2015-11-02 A Comprehensive Course in Analysis by Poincar Prize winner Barry Simon is a five volume set that can serve as a graduate level analysis textbook with a lot of

additional bonus information including hundreds of problems and numerous notes that extend the text and provide important historical background Depth and breadth of exposition make this set a valuable reference source for almost all areas of classical analysis Part 2B provides a comprehensive look at a number of subjects of complex analysis not included in Part 2A Presented in this volume are the theory of conformal metrics including the Poincaré metric the Ahlfors–Robinson proof of Picard's theorem and Bell's proof of the Painlevé smoothness theorem topics in analytic number theory including Jacobi's two and four square theorems the Dirichlet prime progression theorem the prime number theorem and the Hardy–Littlewood asymptotics for the number of partitions the theory of Fuchsian differential equations asymptotic methods including Euler's method stationary phase the saddle point method and the WKB method univalent functions including an introduction to SLE and Nevanlinna theory The chapters on Fuchsian differential equations and on asymptotic methods can be viewed as a minicourse on the theory of special functions

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