Geometric
Asymptotics

Revised Edition

Victor Guillemin
Shlomo Sternberg

Geometric Asymptotics

Victor Ivrii

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Geometric Asymptotics Victor Guillemin,Shlomo Sternberg,1990 Symplectic geometry and the theory of Fourier integral operators are modern manifestations of themes that have occupied a central position in mathematical thought for the past three hundred years the relations between the wave and the corpuscular theories of light The purpose of this book is to develop these themes and present some of the recent advances using the language of differential geometry as a unifying influence   **Geometric Asymptotics for Nonlinear PDE. I** V. P. Maslov G. A. Omelyanov, The study of asymptotic solutions to nonlinear systems of partial differential equations is a very powerful tool in the analysis of such systems and their applications in physics mechanics and engineering In the present book the authors propose a new powerful method of asymptotic analysis of solutions which can be successfully applied in the case of the so called smoothed shock waves i e nonlinear waves which vary fast in a neighborhood of the front and slowly outside of this neighborhood The proposed method based on the study of geometric objects associated to the front can be viewed as a generalization of the geometric optics or WKB method for linear equations This volume offers to a broad audience a simple and accessible presentation of this new method The authors present many examples originating from problems of hydrodynamics nonlinear optics plasma physics mechanics of continuum and theory of phase transitions free boundary problems In the examples characterized by smoothing of singularities due to dispersion or diffusion asymptotic solutions in the form of distorted solitons kinks breathers or smoothed shock waves are constructed By a unified rule a geometric picture is associated with each physical problem that allows for obtaining tractable asymptotic formulas and provides a geometric interpretation of the physical process Included are many figures illustrating the various physical effects   **Translations of Mathematical Monographs** ,1962

Differential Equations, Asymptotic Analysis, and Mathematical Physics Michael Demuth,Bert-Wolfgang Schulze,1997 This volume contains a collection of original papers associated with the International Conference on Partial Differential Equations held in Potsdam July 29 to August 2 1996 The conference has taken place every year on a high scientific level since 1991 this event is connected with the activities of the Max Planck Research Group for Partial Differential Equations at Potsdam Outstanding researchers and specialists from Armenia Belarus Belgium Bulgaria Canada China France Germany Great Britain India Israel Italy Japan Poland Romania Russia Spain Sweden Switzerland Ukraine and the USA contribute to this volume The main topics concern recent progress in partial differential equations microlocal analysis pseudo differential operators on manifolds with singularities aspects in differential geometry and index theory operator theory and operator algebras stochastic spectral analysis semigroups Dirichlet forms Schrodinger operators semiclassical analysis and scattering theory   **Singular Limits of Dispersive Waves** N.M. Ercolani,I.R. Gabitov,C.D. Levermore,D. Serre,2012-12-06 Proceedings of a NATO ARW and of a Chaos Order and Patterns Panel sponsored workshop held in Lyons France July 8 12 1991   *Geometric Asymptotics* ,   *Asymptotic Methods in Electromagnetics* Daniel Bouche,Frederic Molinet,Raj

Mittra,2012-12-06 Numerically rigorous techniques for the computation of electromagnetic fields diffracted by an object become computationally intensive if not impractical to handle at high frequencies and one must resort to asymptotic methods to solve the scattering problem at short wavelengths The asymptotic methods provide closed form expansions for the diffracted fields and are also useful for eliciting physical interpretations of the various diffraction phenomena One of the principal objectives of this book is to discuss the different asymptotic methods in a unified manner Although the book contains explicit formulas for computing the field diffracted by conducting or dielectric coated objects it also provides the mathematical foundations of the different methods and explains how they are interrelated *Wavefronts and Rays as Characteristics and Asymptotics* Andrej B¢na,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 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

Borel-Laplace Transform and Asymptotic Theory Boris Yu. Sternin,Victor E. Shatalov,1995-10-20 The resurgent function theory introduced by J Ecalle is one of the most interesting theories in mathematical analysis In essence the theory provides a resummation method for divergent power series e g asymptotic series and allows this method to be applied to mathematical problems This new book introduces the methods and ideas inherent in resurgent analysis The discussions are clear and precise and the authors assume no previous knowledge of the subject With this new book mathematicians and other scientists can acquaint themselves with an interesting and powerful branch of asymptotic theory the resurgent functions theory and will learn techniques for applying it to solve problems in mathematics and mathematical sciences 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 **Theory of Hypergeometric Functions** Kazuhiko Aomoto,Michitake Kita,2011-05-21 This book presents a geometric theory of complex analytic integrals representing hypergeometric functions of several variables Starting from an integrand which is a product of powers of polynomials integrals are explained in an open affine space as a pair of twisted de Rham cohomology and its dual over the coefficients of local system It is shown that hypergeometric integrals generally satisfy a holonomic system of linear differential equations with respect to the coefficients of polynomials and also satisfy a holonomic system of linear difference equations with respect to the exponents These are deduced from Grothendieck Deligne s rational de Rham cohomology on the one hand and by multidimensional extension of Birkhoff s classical theory on analytic difference equations on the other

Asymptotic Methods for Wave and Quantum Problems M. V. Karasev,2003 The collection consists of four papers in different areas of mathematical physics united by the intrinsic coherence of the asymptotic methods used The papers describe both the known results and most recent achievements as well as new concepts and ideas in mathematical analysis of quantum and wave problems In the introductory paper Quantization and Intrinsic Dynamics a relationship between quantization of symplectic manifolds and nonlinear wave equations is described and discussed from the viewpoint of the weak asymptotics method asymptotics in distributions and the semiclassical approximation method It also explains a hidden dynamic geometry that arises when using these methods Three other papers discuss applications of asymptotic methods to the construction of wave type solutions of nonlinear PDE s to the theory of semiclassical approximation in particular the Whitham method for nonlinear second order ordinary differential equations and to the study of the Schrodinger type equations whose potential wells are sufficiently shallow that the discrete spectrum contains precisely one point All the papers contain detailed references and are oriented not only to specialists in asymptotic methods but also to a wider audience of researchers and graduate students working in partial differential equations and mathematical physics **Introduction to Asymptotic Methods** David Y. Gao,Vadim A. Krysko,2006-05-03 Among the theoretical methods for solving many problems of applied mathematics physics and technology asymptotic methods often provide results that lead to obtaining more effective algorithms of numerical evaluation Presenting the mathematical methods of perturbation theory Introduction to Asymptotic Methods reviews the most important m **Basic Hypergeometric Series and Applications** Nathan Jacob Fine,1988 The theory of partitions founded by Euler has led in a natural way to the idea of basic hypergeometric series also known as Eulerian series These series were first studied systematically by Heine but many early results are attributed to Euler Gauss and Jacobi This book provides a simple approach to basic hypergeometric series **Precise Spectral Asymptotics for Elliptic Operators Acting in Fiberings over Manifolds with Boundary** Victor Ivrii,2006-11-14 a

Asymptotic Behavior of Dissipative Systems Jack K. Hale,2010-01-04 This monograph reports the advances that have

been made in the area by the author and many other mathematicians it is an important source of ideas for the researchers interested in the subject Zentralblatt MATH Although advanced this book is a very good introduction to the subject and the reading of the abstract part which is elegant is pleasant this monograph will be of valuable interest for those who aim to learn in the very rapidly growing subject of infinite dimensional dissipative dynamical systems Mathematical Reviews This book is directed at researchers in nonlinear ordinary and partial differential equations and at those who apply these topics to other fields of science About one third of the book focuses on the existence and properties of the flow on the global attractor for a discrete or continuous dynamical system The author presents a detailed discussion of abstract properties and examples of asymptotically smooth maps and semigroups He also covers some of the continuity properties of the global attractor under perturbation its capacity and Hausdorff dimension and the stability of the flow on the global attractor under perturbation The remainder of the book deals with particular equations occurring in applications and especially emphasizes delay equations reaction diffusion equations and the damped wave equations In each of the examples presented the author shows how to verify the existence of a global attractor and for several examples he discusses some properties of the flow on the global attractor **Hamiltonian and Gradient Flows, Algorithms and Control** Anthony Bloch,1994 This volume brings together ideas from several areas of mathematics that have traditionally been rather disparate The conference at the Fields Institute which gave rise to these proceedings was intended to enourage such connections One of the key interactions occurs between dynamical systems and algorithms one example being the by now classic observation that the QR algorithm for diagonalizing matrices may be viewed as the time 1 map of the Toda lattice flow Another link occurs with interior point methods for linear programming where certain smooth flows associated with such programming problems have proved valuable in the analysis of the corresponding discrete problems More recently other smooth flows have been introduced which carry out discrete computations such as sorting sets of numbers and which solve certain least squares problems Another interesting facet of the flows described here is that they often have a dual Hamiltonian and gradient structure both of which turn out to be useful in analysing and designing algorithms for solving optimization problems This volume explores many of these interactions as well as related work in optimal control and partial differential equations **The Asymptotic Distribution of Eigenvalues of Partial Differential Operators** Yu Safarov,D. Vassiliev,1996-12-15 As the subject of extensive research over a century spectral asymptotics for partial differential operators attracted the attention of many outstanding mathematicians and physicists This book studies the eigenvalues of elliptic linear boundary value problems and has as its main content a collection of asymptotic formulas describing the distribution of eigenvalues with high sequential numbers Asymptotic formulas are used to illustrate standards eigenvalue problems of mechanics and mathematical physics The volume provides a basic introduction to all the necessary mathematical concepts and tools such as microlocal analysis billiards symplectic geometry and Tauberian theorems It is self contained and would be suitable as a graduate text

Quantization, Coherent States, and Complex Structures J-P Antoine,S.T. Ali,W. Lisiecki,I.M. Mladenov,Anatol Odzijewicz,2013-06-29 The XIIIth Bialowieza Summer Workshop was held from July 9 to 15 1994 While still within the general framework of Differential Geometric Methods in Physics the XnIth Workshop was expanded in scope to include quantum groups q deformations and non commutative geometry It is expected that lectures on these topics will now become an integral part of future workshops In the more traditional areas lectures were devoted to topics in quantization field theory group representations coherent states complex and Poisson structures the Berry phase graded contractions and some infinite dimensional systems Those of us who have taken part in the evolution of the workshops over the years feel a good measure of satisfaction with the excellent quality of the papers presented in particular the mathematical rigour and novelty Each year a significant number of new results are presented and future directions of research are discussed Their freshness and immediacy inevitably leads to intense discussions and an exchange of ideas in an informal and physically charming environment The present workshop also had a higher attendance than its predecessors with ap proximately 65 registered participants As usual there was a large number of graduate students and young researchers among them   Einstein's Field Equations and Their Physical Implications Bernd G. Schmidt,2008-01-11 This book serves two purposes The authors present important aspects of modern research on the mathematical structure of Einstein s field equations and they show how to extract their physical content from them by mathematically exact methods The essays are devoted to exact solutions and to the Cauchy problem of the field equations as well as to post Newtonian approximations that have direct physical implications Further topics concern quantum gravity and optics in gravitational fields The book addresses researchers in relativity and differential geometry but can also be used as additional reading material for graduate students

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