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Geometric Asymptotics

Revised Edition

V. Guillemin
S. Sternberg



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Geometric Asymptotics

Victor Guillemin, Shlomo Sternberg



Geometric Asymptotics:

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 **Geometric Asymptotics** , **Geometric Asymptotics for Nonlinear PDE** Viktor Pavlovich Maslov,2001 Geometric Phases, Geometric Asymptotics and Integrable Systems Mark S. Alber,1990 **Geometric Asymptotics of Spin** James Paul Maurice Flude,1998 *Asymptotic Geometric Analysis, Part II* Shiri Artstein-Avidan, Apostolos Giannopoulos, Vitali D. Milman,2021-12-13 This book is a continuation of Asymptotic Geometric Analysis Part I which was published as volume 202 in this series Asymptotic geometric analysis studies properties of geometric objects such as normed spaces convex bodies or convex functions when the dimensions of these objects increase to infinity The asymptotic approach reveals many very novel phenomena which influence other fields in mathematics especially where a large data set is of main concern or a number of parameters which becomes uncontrollably large One of the important features of this new theory is in developing tools which allow studying high parametric families Among the topics covered in the book are measure concentration isoperimetric constants of log concave measures thin shell estimates stochastic localization the geometry of Gaussian measures volume inequalities for convex bodies local theory of Banach spaces type and cotype the Banach Mazur compactum symmetrizations restricted invertibility and functional versions of geometric notions and inequalities **Asymptotic Geometric Analysis**

Monika Ludwig, Vitali D. Milman, Vladimir Pestov, Nicole Tomczak-Jaegermann, 2013-03-27 Asymptotic Geometric Analysis is concerned with the geometric and linear properties of finite dimensional objects normed spaces and convex bodies especially with the asymptotics of their various quantitative parameters as the dimension tends to infinity The deep geometric probabilistic and combinatorial methods developed here are used outside the field in many areas of mathematics and mathematical sciences The Fields Institute Thematic Program in the Fall of 2010 continued an established tradition of previous large scale programs devoted to the same general research direction The main directions of the program included Asymptotic theory of convexity and normed spaces Concentration of measure and isoperimetric inequalities optimal transportation approach Applications of the concept of concentration Connections with transformation groups and Ramsey theory Geometrization of probability Random matrices Connection with asymptotic combinatorics and complexity theory These directions are represented in this volume and reflect the present state of this important area of research It will be of benefit to researchers working in a wide range of mathematical sciences in particular functional analysis combinatorics convex geometry dynamical systems operator algebras and computer science 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 Asymptotic Geometric Analysis, 2015 Asymptotic Geometric Analysis Shiri Artstein-Avidan, Apostolos Giannopoulos, Vitali D. Milman, 2024 **Lectures on the Geometry of Quantization** Sean Bates, Alan Weinstein, 1995 **Elliptic Operators, Topology, and Asymptotic Methods** John Roe, 1988 **Interdisciplinary Mathematics: Topics in the geometric theory of integrable mechanical systems** Robert Hermann, 1973 Geometric Formulations of Physical Theories Włodzimierz M. Tulczyjew, 1989 Bulletin (new Series) of the American Mathematical Society, 1918 *Bulletin of the American Mathematical Society* American Mathematical Society, 1918 Symplectic Singularities and Geometry of Gauge Fields Robert Budzyński, 1997 Symplectic Geometry Albert Crumeyrolle, J. Grifone, 1983

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