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Caustics for Dissipative Semilinear Oscillations

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Caustics For Dissipative Semilinear Oscillations:

Caustics for Dissipative Semilinear Oscillations Jean-Luc Joly,Guy Métivier,Jeffrey Rauch,2000 This book is intended for graduate students and research mathematicians interested in partial differential equations *Caustics for Dissipative Semilinear Oscillations* Jean-Luc Joly,2014-09-11 This book is intended for graduate students and research mathematicians interested in partial differential equations *Hyperbolic Problems: Theory, Numerics, Applications* Michael Fey,Rolf Jeltsch,1999-04-01 Infotext Kurztext These are the proceedings of the 7th International Conference on Hyperbolic Problems held in Z rich in February 1998 The speakers and contributors have been rigorously selected and present the state of the art in this field The articles both theoretical and numerical encompass a wide range of applications such as nonlinear waves in solids various computational fluid dynamics from small scale combustion to relativistic astrophysical problems multiphase phenomena and geometrical optics Volltext These proceedings contain in two volumes approximately one hundred papers presented at the conference on hyperbolic problems which has focused to a large extent on the laws of nonlinear hyperbolic conservation Two fifths of the papers are devoted to mathematical aspects such as global existence uniqueness asymptotic behavior such as large time stability stability and instabilities of waves and structures various limits of the solution the Riemann problem and so on Roughly the same number of articles are devoted to numerical analysis for example stability and convergence of numerical schemes as well as schemes with special desired properties such as shock capturing interface fitting and high order approximations to multidimensional systems The results in these contributions both theoretical and numerical encompass a wide range of applications such as nonlinear waves in solids various computational fluid dynamics from small scale combustion to relativistic astrophysical problems multiphase phenomena and geometrical optics

Semi-classical Analysis For Nonlinear Schrodinger Equations Remi Carles,2008-03-04 These lecture notes review recent results on the high frequency analysis of nonlinear Schr dinger equations in the presence of an external potential The book consists of two relatively independent parts WKB analysis and caustic crossing In the first part the basic linear WKB theory is constructed and then extended to the nonlinear framework The most difficult supercritical case is discussed in detail together with some of its consequences concerning instability phenomena Applications of WKB analysis to functional analysis in particular to the Cauchy problem for nonlinear Schr dinger equations are also given In the second part caustic crossing is described especially when the caustic is reduced to a point and the link with nonlinear scattering operators is investigated These notes are self contained and combine selected articles written by the author over the past ten years in a coherent manner with some simplified proofs Examples and figures are provided to support the intuition and comparisons with other equations such as the nonlinear wave equation are provided **Geometrical Optics and Related Topics** Ferrucio Colombini,Nicolas Lerner,2012-12-06 This book contains fourteen research papers which are expanded versions of conferences given at a meeting held in September 1996 in Cortona Italy The topics include blowup questions for quasilinear

equations in two dimensions time decay of waves in LP uniqueness results for systems of conservation laws in one dimension concentra tion effects for critical nonlinear wave equations diffraction of nonlin ear waves propagation of singularities in scattering theory caustics for semi linear oscillations Other topics linked to microlocal analysis are Sobolev embedding theorems in Weyl Hormander calculus local solv ability for pseudodifferential equations hypoellipticity for highly degen erate operators The book also contains a result on uniqueness for the Cauchy problem under partial analyticity assumptions and an article on the regularity of solutions for characteristic initial boundary value problems On each topic listed above one will find new results as well as a description of the state of the art Various methods related to nonlinear geometrical optics are a transversal theme of several articles Pseu dodifferential techniques are used to tackle classical PDE problems like Cauchy uniqueness We are pleased to thank the speakers for their contributions to the meeting Serge Alinhac Mike Beals Alberto Bressan Jean Yves Chemin Christophe Cheverry Daniele Del Santo Nils Dencker Patrick Gerard Lars Hormander John Hunter Richard Melrose Guy Metivier Yoshinori Morimoto and Tatsuo Nishitani The meeting was made possible in part by the financial support of a European commission pro gram Human capital and mobility CHRX CT94 044 Handbook of Differential Equations: Evolutionary Equations C.M. Dafermos,Milan Pokorny,2009-04-29 Handbook of Differential Equations Evolutionary Equations is the last text of a five volume reference in mathematics and methodology This volume follows the format set by the preceding volumes presenting numerous contributions that reflect the nature of the area of evolutionary partial differential equations The book is comprised of five chapters that feature the following A thorough discussion of the shallow equations theory which is used as a model for water waves in rivers lakes and oceans It covers the issues of modeling analysis and applications Evaluation of the singular limits of reaction diffusion systems where the reaction is fast compared to the other processes and applications that range from the theory of the evolution of certain biological processes to the phenomena of Turing and cross diffusion instability Detailed discussion of numerous problems arising from nonlinear optics at the high frequency and high intensity regime Geometric and diffractive optics including wave interactions Presentation of the issues of existence blow up and asymptotic stability of solutions from the equations of solutions to the equations of linear and non linear thermoelasticity Answers to questions about unique space such as continuation and backward uniqueness for linear second order parabolic equations Research mathematicians mathematics lecturers and instructors and academic students will find this book invaluable Review of new results in the area Continuation of previous volumes in the handbook series covering evolutionary PDEs New content coverage of DE applications **Hyperbolic Problems** Michael Fey,Rolf Jeltsch,1999 **Asymptotic Analysis and Singularities: Hyperbolic and dispersive PDEs and fluid mechanics** Hideo Kozono,2007 This volume is the proceedings of the 14th MSJ International Research Institute Asymptotic Analysis and Singularity which was held at Sendai Japan in July 2005 The proceedings contain survey papers and original research papers on nonlinear partial differential equations dynamical systems calculus of variations and mathematical physics Published by

Mathematical Society of Japan and distributed by World Scientific Publishing Co for all markets except North America **Revista Matemática Iberoamericana** ,2004 Mathematical Reviews ,2005 *Publications Update* World Bank,1996 *Séminaire équations aux dérivées partielles* ,2003 **Singularities and Oscillations** Jeffrey Rauch,Michael Taylor,1997-05-06 This IMA Volume in Mathematics and its Applications SINGULARITIES AND OSCILLATIONS is based on the proceedings of a very successful one week workshop with the same title which was an integral part of the 1994 1995 IMA program on Waves and Scattering We would like to thank Joseph Keller Jeffrey Rauch and Michael Taylor for their excellent work as organizers of the meeting We would like to express our further gratitude to Rauch and Taylor who served as editors of the proceedings We also take this opportunity to thank the National Science Foun dation NSF the Army Research Office ARO and the Office of Naval Research ONR whose financial support made the workshop possible Avner Friedman Robert Gulliver v PREFACE Thestudyofsingularitiesand oscillationsofwaves has progressed along several fronts A key common feature is the presence of a small scale in the solutions Recent emphasis has been on nonlinear waves Nonlinear problems are generally less amenable than linear problems to broad unified approaches As a result there is a justifiable tendency to concentrate on problems of particular geometric or physical interest This volume con tains a multiplicity of approaches brought to bear on problems varying from the formation ofcaustics and the propagation ofwaves at a boundary to the examination ofviscous boundary layers There is an examination of the foundations of the theory of high frequency electromagnetic waves in a dielectric or semiconducting medium Unifying themes are not entirely absent from nonlinear analysis **Bulletin de la Société mathématique de France** Société mathématique de France,2003 *Transactions of the American Mathematical Society* ,1995 **American Book Publishing Record** ,2000 **Catalogue** American Mathematical Society,2000 *International Mathematical News* ,1997 **International Aerospace Abstracts** ,1977 **The Engineering Index Annual** ,1988 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly

Caustics For Dissipative Semilinear Oscillations Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Caustics For Dissipative Semilinear Oscillations**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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