

SINGULARITIES OF CAUSTICS AND WAVE FRONTS

Edited by

V. I. Arnold



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Singularities Of Caustics And Wave Fronts

V.I. Arnol'd



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Singularities of Caustics and Wave Fronts Vladimir Arnold, 2001-11-30 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 *Singularities of Caustics and Wave Fronts* Vladimir Igorevič Arnol'd, 1990 **Singularities of Caustics and**

Wave Fronts Vladimir Igorevič Arnol'd, 1990 *Singularities of Functions, Wave Fronts, Caustics and Multidimensional Integrals* Vladimir Igorevich Arnol'd, Aleksandr Nikolaevich Varchenko, A. B. Givental', A. G. Khovanskii, 2012 This classic paper is an introduction to some difficult contemporary fields of study in mathematics known under the rubric of Catastrophe Theory which encompasses the theory of typical singularities of functions and mappings The authors discuss the basic ideas concepts and methods of the theory of singularities The survey is presented in three sections Section 1 Singularities of Functions Caustics and Wave Fronts Section 2 Integrals of the Stationary Phase Method Section 3 The Geometry of Formulas The survey provides a useful source of reference for students postgraduates and researchers in these areas of mathematics

Arnold's Problems Vladimir I. Arnold, 2004-06-24 Vladimir Arnold is one of the most outstanding mathematicians of our time Many of these problems are at the front line of current research **Wavefronts and Rays as Characteristics and Asymptotics** Andrej Bona, 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, 2020-09-24 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. **Computer Graphics**, 2014-05-19

The decades of the 1970s and 1980s were a very exciting period of discovery in the field of computer graphics. It was a time when new rendering algorithms, different modeling strategies, clever animation techniques and significant advances in photorealism were being made. Complementing these software developments, hardware systems were dominated by raster technology and programmers had access to excellent workstations on which to develop their graphics systems. In the 1990s, incredible advances in computer graphics are far surpassing developments made during the last twenty years. Yesterdays computer graphics have given way to today's virtual reality. This volume brings together contributions from international experts on the diverse yet important range of topics that impact the design and application of virtual environments. Topics covered include 3D modeling, new approaches to rendering virtual environments, recent research into the problems of animating and visualizing virtual environments, applications for virtual reality systems and simulation of complex behaviors. *Computer Graphics: Developments in Virtual Environments* provides a unique opportunity to examine current practice and expert thinking. It is essential reading for students, practitioners, researchers or anyone else who wishes to find out more about this exciting area. Provides comprehensive coverage of the latest topics in computer graphics, virtual reality and human-computer interaction. Contributors are international experts in the field. Examines many real world applications in a wide variety of fields. Singularity Theory and Gravitational Lensing, Arlie O. Petters, Harold

Levine, Joachim Wambsganss, 2012-12-06. Astronomers do not do experiments. They observe the universe primarily through detecting light emitted by stars and other luminous objects. Since this light must travel through space to reach us, variations in the metric of space affects the appearance of astronomical objects. These variations lead to dramatic changes in the shape and brightness of astronomical sources. Because these variations are sensitive to mass rather than to light, observations of gravitational lensing enable astronomers to probe the mass distribution of the universe. With gravitational lensing observations, astronomers are addressing many of the most important scientific questions in astronomy and physics. What is the universe made of? Most of the energy and mass in the universe is not in the form of luminous objects. Stars account for less than 1 % of the energy density of the universe. Perhaps as much as another 3% of the energy density of the universe is in the form of warm gas that fills the space between galaxies. The remaining 96% of the energy density is in some yet

unidentified form Roughly one third of this energy density of the universe is dark matter matter that clusters gravitationally but does not emit light Most cosmologists suspect that this dark matter is composed of weakly interacting subatomic particles However most of the energy density of the universe appears to be in an even stranger form energy associated with empty space **New Developments in Singularity Theory** Dirk Wiersma,C.T.C. Wall,V. Zakalyukin,2012-12-06

Singularities arise naturally in a huge number of different areas of mathematics and science As a consequence singularity theory lies at the crossroads of paths that connect many of the most important areas of applications of mathematics with some of its most abstract regions The main goal in most problems of singularity theory is to understand the dependence of some objects of analysis geometry physics or other science functions varieties mappings vector or tensor fields differential equations models etc on parameters The articles collected here can be grouped under three headings A Singularities of real maps B Singular complex variables and C Singularities of homomorphic maps **Differential Geometry From A**

Singularity Theory Viewpoint Shyuichi Izumiya,Maria Del Carmen Romero Fuster,Maria Aparecida Soares Ruas,Farid Tari,2015-10-29 Differential Geometry from a Singularity Theory Viewpoint provides a new look at the fascinating and classical subject of the differential geometry of surfaces in Euclidean spaces The book uses singularity theory to capture some key geometric features of surfaces It describes the theory of contact and its link with the theory of caustics and wavefronts It then uses the powerful techniques of these theories to deduce geometric information about surfaces embedded in 3 4 and 5 dimensional Euclidean spaces The book also includes recent work of the authors and their collaborators on the geometry of sub manifolds in Minkowski spaces Singularities of Differentiable Maps, Volume 1 V.I. Arnold,S.M.

Gusein-Zade,Alexander N. Varchenko,2012-05-24 Singularity theory is a far reaching extension of maxima and minima investigations of differentiable functions with implications for many different areas of mathematics engineering catastrophe theory and the theory of bifurcations and science The three parts of this first volume of a two volume set deal with the stability problem for smooth mappings critical points of smooth functions and caustics and wave front singularities The second volume describes the topological and algebro geometrical aspects of the theory monodromy intersection forms oscillatory integrals asymptotics and mixed Hodge structures of singularities The first volume has been adapted for the needs of non mathematicians presupposing a limited mathematical background and beginning at an elementary level With this foundation the book s sophisticated development permits readers to explore more applications than previous books on singularities

Singularity Theory: Dedicated To Jean-paul Brasselet On His 60th Birthday - Proceedings Of The 2005 Marseille Singularity School And Conference Jean-paul Brasselet,Denis Cheniot,Nicolas Dutertre,Claudio Murolo,Anne Pichon,David Trotman,2007-02-08 The Singularity School and Conference took place in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory The volume contains the elementary and advanced courses conducted by singularities

specialists during the conference general lectures on singularity theory and lectures on applications of the theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities

Dynamical Systems IV V.I. Arnol'd, S.P. Novikov, 2013-06-29 This book takes a snapshot of the mathematical foundations of classical and quantum mechanics from a contemporary mathematical viewpoint It covers a number of important recent developments in dynamical systems and mathematical physics and places them in the framework of the more classical approaches the presentation is enhanced by many illustrative examples concerning topics which have been of especial interest to workers in the field and by sketches of the proofs of the major results The comprehensive bibliographies are designed to permit the interested reader to retrace the major stages in the development of the field if he wishes Not so much a detailed textbook for plodding students this volume like the others in the series is intended to lead researchers in other fields and advanced students quickly to an understanding of the state of the art in this area of mathematics As such it will serve both as a basic reference work on important areas of mathematical physics as they stand today and as a good starting point for further more detailed study for people new to this field

Nonlinear Hyperbolic Problems Claude Carasso, Pierre Charrier, Bernard Hanouzet, Jean-Luc Joly, 2006-11-14 The papers included in this proceedings volume are mostly original research papers dealing with life span of waves nonlinear interaction of waves and various applications to fluid mechanics

Singularity Theory Denis Chȳniot, 2007 The Singularity School and Conference took place in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory The volume contains the elementary and advanced courses conducted by singularities specialists during the conference general lectures on singularity theory and lectures on applications of the theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities

Dynamical Systems IV S.P. Novikov, 2001-06-20 From the reviews of the first edition Here a wealth of material is displayed for us too much to even indicate in a review Your reviewer was very impressed by the contents of both volumes EMS 2 and 4 recommending them without any restriction Mededelingen van het Wiskundig genootschap 1992

Mathematical Methods of Classical Mechanics V.I. Arnol'd, 2013-04-09 In this text the author constructs the mathematical apparatus of classical mechanics from the beginning examining all the basic problems in dynamics including the theory of oscillations the theory of rigid body motion and the Hamiltonian formalism This modern approach based on the theory of the geometry of manifolds distinguishes itself from the traditional approach of standard textbooks Geometrical considerations are emphasized throughout and include phase spaces and flows vector fields and Lie groups The work includes a detailed discussion of qualitative methods of the theory of dynamical systems and of asymptotic methods like perturbation techniques averaging and adiabatic invariance

Geometrical Optics in Engineering Physics IŲUŲriĳ Aleksandrovich KravtŲsŲov, 2005 This monograph provides concise and clear coverage of modern ray theory

without the need of complicated mathematics Comprehensive coverage is given to wave problems in engineering physics considering rays and caustics as physical objects *Progress in Optics* ,1980-01-01 Progress in Optics

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