

Oleg I. Bogoyavlensky

Methods in the

Qualitative Theory of Dynamical Systems in Astrophysics and Gas Dynamics



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Homogeneous cosmological models self similar motion of self gravitating gas and motion of gas with homogeneous deformation have important applications in the theory of evolution of the universe In particular they can be applied to the theory of explosions of stars formation of galaxies pulsation of alternating stars etc The equations of general relativity and Newtonian gas dynamics in the cases mentioned above are reduced to systems of a finite but quite large number of ordinary differential equations In the last two decades these multi dimensional dynamical systems were and still are being analyzed by means of traditional analytic and numerical methods Important dynamical modes of some solutions were thus established These include oscillatory modes of the space time metric near a cosmological singularity self similar motion of self gravitating gas with a shock wave and an expanding cavity inside as in an explosion of a star collapse of an ellipsoid of self gravitating dust into a disc and others However the multi dimensional dynamical systems in question are so complex that a complete analysis of all dynamical modes of the solutions by means of well known traditional analytic methods does not seem feasible Therefore the development of effective methods of qualitative analysis of multi dimensional dynamical systems and their application to the problems of astrophysics and gas dynamics previously unsolved by traditional methods becomes especially urgent

Dynamical Systems and Cosmology A.A. Coley, 2003-10-31 Dynamical systems theory is especially well suited for determining the possible asymptotic states at both early and late times of cosmological models particularly when the governing equations are a finite system of autonomous ordinary differential equations In this book we discuss cosmological models as dynamical systems with particular emphasis on applications in the early Universe We point out the important role of self similar models We review the asymptotic properties of spatially homogeneous perfect fluid models in general relativity We then discuss results concerning scalar field models with an exponential potential both with and without barotropic matter Finally we discuss the dynamical properties of cosmological models derived from the string effective action This book is a valuable source for all graduate students and professional astronomers who are interested in modern developments in cosmology

Cosmological Crossroads Spiros Cotsakis, Eleftherios Papantonopoulos, 2008-01-11

History and Overview Is Nature Generic Evolution of Ideas in Modern Cosmology Mathematical Cosmology Constraints and Evolution in Cosmology Cosmological Singularities Exact Cosmological Solutions to Cosmological Dynamical Systems Astrophysical and Observational Cosmology The Quest for the Cosmological Parameters Modern Cosmological Observations Cosmological Perturbations Dark Matter A Particle Theorist's Viewpoint Particle and String Cosmology An Introduction to Particle Physics Quantum Cosmology Inflationary Cosmology String Cosmology Brane Cosmology

The Sixth Canadian Conference on General Relativity and Relativistic Astrophysics Stephen Paul Brahm, Jack David Gegenberg, Robert

James McKellar,1997 This volume is the refereed proceedings of the Sixth Canadian Conference on General Relativity and Relativistic Astrophysics held in May 1995 at the University of New Brunswick The book includes invited talks and contributed talks and posters including state of the art reviews of many of the most recent important developments in gravitational physics This book would serve as a good supplement to standard texts on the topic It features review articles in key areas black holes numerical relativity etc contributions covering most of gravitational physics useful articles for students who wish to begin exploring the issues discussed and invited talks given by researchers known for their ability to communicate their expertise

Mathematical Physics and Complex Analysis L. D. Faddeev,1988 A collection of survey papers on the 50th anniversary of the institute *The Geometry of Higher-Dimensional Polytopes* Zhizhin, Gennadiy Vladimirovich,2018-08-03 The majority of the chemical elements form chemical compounds with molecules of higher dimension i e substantially exceeding three This fact is very important for the analysis of molecular interactions in various areas nanomedicine nanotoxicology and quantum biology The Geometry of Higher Dimensional Polytopes contains innovative research on the methods and applications of the structures of binary compounds It explores the study of geometry polytopes from a higher dimensional perspective taking into account the features of polytopes that are models of chemical compounds While highlighting topics including chemical compounds symmetry transformation and DNA structures this book is ideally designed for researchers academicians and students seeking current research on dimensions present in binary compounds

Gravitation and Modern Cosmology N. Sánchez,A. Zichichi,V. de Sabbata,2013-06-29 Peter Gabriel Bergmann started his work on general relativity in 1936 when he moved from Prague to the Institute for Advanced Study in Princeton Bergmann collaborated with Einstein in an attempt to provide a geometrical unified field theory of gravitation and electromagnetism Within this program they wrote two articles together A Einstein and P G Bergmann Ann Math 39 685 1938 and A Einstein V Bargmann and P G Bergmann Th von Karman Anniversary Volume 212 1941 The search for such a theory was intense in the ten years following the birth of general relativity In recent years some of the geometrical ideas proposed in these publications have proved essential in contemporary attempts towards the unification of all interactions including gravity Kaluza Klein type theories and supergravity theories In 1942 Bergmann published the book Introduction to the Theory of Relativity which included a foreword by Albert Einstein This book is a reference for the subject either as a textbook for classroom use or for individual study A second corrected and enlarged edition of the book was published in 1976 Einstein said in his foreword to the first edition Bergmann s book seems to me to satisfy a definite need Much effort has gone into making this book logically and pedagogically satisfactory and Bergmann has spent many hours with me which were devoted to this end Nonlinear Dynamics and Renormalization Group Israel Michael Sigal,Catherine Sulem,2001 This book contains the proceedings from the workshop Nonlinear Dynamics and Renormalization Group held at the Centre de recherches math matiques CRM in Montr al Canada as part of the year long program devoted to mathematical physics In the

book active researchers in the fields of nonlinear partial differential equations and renormalization group contribute recent results on topics such as Ginzburg Landau equations and blow up of solutions of the nonlinear Schroedinger equations quantum resonances and renormalization group analysis in constructive quantum field theory This volume offers the latest research in the rapidly developing fields of nonlinear equations and renormalization group *Current Topics In Astrofundamental Physics - 1st Course In The International School Of Astrophysics "D Chalonge"* Normalized Sanchez,1992-11-20 This volume provides an updated understanding of the progress and current problems in the interplay between fundamental physics astrophysics and cosmology In the last years the cross section between these fields has been increasing both at the theoretical and experimental levels particle physics experiments astronomical observations space satellite data Such interplay has fruitfully influenced research activity setting up Astrofundamental physics Topics covered in this volume are early universe large scale structure of the universe dark matter problem cosmic microwave background radiation gravitational wave astronomy and neutrino astrophysics The inter relation between these topics is important and a source of problems at the frontiers of present knowledge and experimental limits Latest available data are constraining theory and models in these topics The book reviews achievements confronts theory and models with observations and provides information on the latest developments and discussions on future prospects It also includes a section on stellar spectroscopy and spectrophotometry which covers Daniel Chalonge s work as well as present progress and future prospects in these fields Nonlinear Analysis and Boundary Value Problems Iván Area,Alberto Cabada,José Ángel Cid,Daniel Franco,Eduardo Liz,Rodrigo López Pouso,Rosana Rodríguez-López,2019-09-19 This book is devoted to Prof Juan J Nieto on the occasion of his 60th birthday Juan Jos Nieto Roig born 1958 A Coru a is a Spanish mathematician who has been a Professor of Mathematical Analysis at the University of Santiago de Compostela since 1991 His most influential contributions to date are in the area of differential equations Nieto received his degree in Mathematics from the University of Santiago de Compostela in 1980 He was then awarded a Fulbright scholarship and moved to the University of Texas at Arlington where he worked with Professor V Lakshmikantham He received his Ph D in Mathematics from the University of Santiago de Compostela in 1983 Nieto s work may be considered to fall within the ambit of differential equations and his research interests include fractional calculus fuzzy equations and epidemiological models He is one of the world s most cited mathematicians according to Web of Knowledge and appears in the Thompson Reuters Highly Cited Researchers list Nieto has also occupied different positions at the University of Santiago de Compostela such as Dean of Mathematics and Director of the Mathematical Institute He has also served as an editor for various mathematical journals and was the editor in chief of the journal Nonlinear Analysis Real World Applications from 2009 to 2012 In 2016 Nieto was admitted as a Fellow of the Royal Galician Academy of Sciences This book consists of contributions presented at the International Conference on Nonlinear Analysis and Boundary Value Problems held in Santiago de Compostela Spain 4th 7th September 2018 Covering a

variety of topics linked to Nieto's scientific work ranging from differential difference and fractional equations to epidemiological models and dynamical systems and their applications it is primarily intended for researchers involved in nonlinear analysis and boundary value problems in a broad sense

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

On Einstein's Path Alex Harvey, Engelbert L. Schucking, 1999 This collection of nearly forty essays in honor of the noted physicist and cosmologist Engelbert Schucking spans the gamut of research in Einstein's theory of general relativity and presents a lively and personal account of current work in the field Indispensable for physicists involved in research in the field the book includes important chapters by noted theorists such as A Ashtekar P G Bergmann J Ehlers E T Newman J V Narlikar R Penrose D W Sciama J Stachel and W Rindler

Differential and Difference Equations with Applications Sandra Pinelas, Tomás Caraballo, Peter Kloeden, John R. Graef, 2018-05-08 This book gathers papers from the International Conference on Differential Difference Equations and Applications 2017 ICDDEA 2017 held in Lisbon Portugal on June 5-9 2017 The editors have compiled the strongest research presented at the conference providing readers with valuable insights into new trends in the field as well as applications and high level survey results The goal of the ICDDEA was to promote fruitful collaborations between researchers in the fields of differential and difference equations All areas of differential and difference equations are represented with a special emphasis on applications

Gravitation: the Spacetime Structure: Proceedings Of The VIII Latin American Symposium On Relativity And Gravitation Patricio S Letelier, Waldyr A Rodrigues Jr, 1994-07-27 This volume contains five mini courses Nakedly Singular Solutions of Einstein's Equations K Lake Clifford Algebras Relativity and Quantum Mechanics P Lounesto Numerical Relativity and Dynamical Evolution of Black Hole Spacetimes R Matzner Soliton and Vacua in Relativity Theory Revisited G W Gibbons Cosmic Strings and Their Observational Consequences E P S Shellard and seventy seven research papers by Latin American scientists

Cosmology and Gravitation II Marius Paul Bernard Novella, 1996

Classical And Quantum Gravity - Proceedings Of The First Iberian Meeting On Gravity M C Bento, Jose Manuel Cidade Mourao, Orfeu Bertolami, Roger Francis Picken, 1993-12-22 The proceedings of the First Iberian Meeting on Gravity give a broad view of the most recent research on gravity Black hole thermodynamics wormhole solutions and covariant path integral quantization are some of the topics discussed The mainstream approaches to quantum gravity such as loop space quantization and string theories are presented Also included are the trendy subjects of two dimensional quantum gravity and unitary matrix models

Introduction to Mechanics and Symmetry Jerrold E. Marsden, Tudor S. Ratiu, 2013-03-19 Symmetry has always played an important role in mechanics from fundamental formulations of basic principles to concrete applications The theme of the book is to develop the basic theory and applications of mechanics with an emphasis on the role of symmetry In recent times the interest in mechanics and in symmetry techniques in particular has accelerated because of developments in dynamical systems the use of geometric methods and new applications to integrable and chaotic systems control systems stability and bifurcation and the study of specific rigid fluid plasma and elastic systems Introduction to Mechanics and Symmetry lays the basic foundation for these topics and includes numerous specific applications making it beneficial to physicists and engineers This text has specific examples and applications showing how the theory works and up to date techniques all of which makes it accessible to a wide variety of readers especially senior undergraduate and graduate students in mathematics physics and engineering For this second edition the text has been rewritten and updated for clarity throughout with a major revamping and expansion of the exercises Internet supplements containing additional material are also available on line [Symmetries, Topology and Resonances in Hamiltonian Mechanics](#) Valerij V. Kozlov, 2012-12-06 John Hornstein has written about the author's theorem on nonintegrability of geodesic flows on closed surfaces of genus greater than one Here is an example of how differential geometry differential and algebraic topology and Newton's laws make music together Amer Math Monthly November 1989 Kozlov's book is a systematic introduction to the problem of exact integration of equations of dynamics The key to the solution is to find nontrivial symmetries of Hamiltonian systems After Poincaré's work it became clear that topological considerations and the analysis of resonance phenomena play a crucial role in the problem on the existence of symmetry fields and nontrivial conservation laws **Literature 1986, Part 1** Prof. Dr. Roland Wielen, S. Böhme, U. Esser, H. Hefele, Inge Heinrich, W. Hofmann, D. Krahn, V. R. Matas, Dr. Lutz D. Schmadel, G. Zech, 2013-04-17

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