

Solitary Waves in Plasmas and in the Atmosphere

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and
Oleg Pokhotelov



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Solitary Waves in Plasmas and in the Atmosphere Vladimir .I. Petviashvili, Oleg .A. Pokhotelov, 2016-04-15 First Published in 1992 This book arose as a result of the authors work on the review Solitary Vortices in Plasmas written for the Soviet Journal of Plasma Physics With the development of nonlinear wave theory some novel concepts came into use such as solitary waves solitary vortices and solitons There is still some inconsistency in the use of these terms The study of solitary waves solitons should ultimately lead to a better understanding of the internal structure of elementary particles That is why solitons are attracting great attention from physicists and mathematicians The material presented in this book shows that solitons are also of interest in plasma physics and geophysics where these concepts have many important applications

Chaos and Structures in Nonlinear Plasmas Claude Wendell Horton, Yoshi H. Ichikawa, 1996 This book develops the subject of nonlinear plasma physics from a general physics perspective It begins with a description of nonlinear oscillations the parametric instability the pendulum and the nonlinear island overlap criterion The Kolomogorov Arnold Moser KAM theory is analyzed Laboratory visualizations of the KAM theory are presented for experiments in toroidal plasma confinement and rotating fluids The subjects of transport in $E \times B$ flows and geostrophic flows are developed in parallel stressing the generality of the Charney Hasegawa Mima equation The dual nature of wave turbulence and vortex dynamics is developed for plasmas and geophysical flows The presentation of the subject of nonlinear maps shows how maps are related to the nonlinear dynamics in plasma physics problems Numerous space plasma and fusion physics examples are developed throughout the book The final chapter deals with turbulence theory renormalized mode coupling equations and Kolomogorov type spectra as modified for anisotropic plasmas

Multi-scale Dynamical Processes in Space and Astrophysical Plasmas Manfred P. Leubner, Zoltán Vörös, 2012-08-01 Magnetized plasmas in the universe exhibit complex dynamical behavior over a huge range of scales The fundamental mechanisms of energy transport redistribution and conversion occur at multiple scales The driving mechanisms often include energy accumulation free energy excited relaxation processes dissipation and self organization The plasma processes associated with energy conversion transport and self organization such as magnetic reconnection instabilities linear and nonlinear waves wave particle interactions dynamo processes turbulence heating diffusion and convection represent fundamental physical effects They demonstrate similar dynamical behavior in near Earth space on the Sun in the heliosphere and in astrophysical environments Multi scale Dynamical Processes in Space and Astrophysical Plasmas presents the proceedings of the International Astrophysics Forum Alpbach 2011 The contributions discuss the latest advances in the exploration of dynamical behavior in space plasmas environments including comprehensive approaches to theoretical experimental and numerical aspects The book will appeal to researchers and students in the fields of physics space and astrophysics solar physics geophysics and planetary science

Microphysics of Cosmic Plasmas André Balogh, Andrei Bykov, Peter Cargill, Richard Dendy, Thierry Dudok de Wit, John Raymond, 2014-01-15 Presents a

comprehensive review of physical processes in astrophysical plasmas This title presents a review of the detailed aspects of the physical processes that underlie the observed properties structures and dynamics of cosmic plasmas An assessment of the status of understanding of microscale processes in all astrophysical collisionless plasmas is provided The topics discussed include turbulence in astrophysical and solar system plasmas as a phenomenological description of their dynamic properties on all scales observational theoretical and modelling aspects of collisionless magnetic reconnection the formation and dynamics of shock waves and a review and assessment of microprocesses such as the hierarchy of plasma instabilities non local and non diffusive transport processes and ionisation and radiation processes In addition some of the lessons that have been learned from the extensive existing knowledge of laboratory plasmas as applied to astrophysical problems are also covered This volume is aimed at graduate students and researchers active in the areas of cosmic plasmas and space science Originally published in Space Science Reviews journal Vol 278 2 4 2013

Mathematical Physics - Proceedings Of The 12th Regional Conference Muhammad Jamil Aslam, Faheem Hussain, Asghar Qadir, Hamid Saleem, Riazuddin, 2007-04-04 These proceedings survey the latest developments in a wide area of mathematical physics as presented by internationally renowned experts The fields surveyed are High Energy Physics String Theory Relativity Astrophysics Cosmology Plasma Physics and Formal Aspects of Mathematical Physics Some of the exciting topics discussed in this volume are fundamental questions about black holes and string theory supermassive black holes string theory and the quantum structure of space time AdS space time and holography the cosmological constant non commutative geometry quantum gravity symmetries in general relativity recent developments in neutrino physics and astrophysical plasmas *Mathematical Physics* M. Jamil Aslam, 2007 These proceedings survey the latest developments in a wide area of mathematical physics as presented by internationally renowned experts The fields surveyed are High Energy Physics String Theory Relativity Astrophysics Cosmology Plasma Physics and Formal Aspects of Mathematical Physics Some of the exciting topics discussed in this volume are fundamental questions about black holes and string theory supermassive black holes string theory and the quantum structure of space time AdS space time and holography the cosmological constant non commutative geometry quantum gravity symmetries in general relativity recent developments in neutrino physics and astrophysical plasmas *Coherent Vortex Structures in Fluids and Plasmas* Anatoli Tur, Vladimir Yanovsky, 2017-04-09 This monograph introduces readers to the hydrodynamics of vortex formation and reviews the last decade of active research in the field offering a unique focus on research topics at the crossroads of traditional fluids and plasmas Vortices are responsible for the process of macroscopic transport of momentum energy and mass and are formed as the result of spontaneous self organization Playing an important role in nature and technology localized coherent vortices are regularly observed in shear flows submerged jets afterbody flows and in atmospheric boundary layers sometimes taking on the form of vortex streets In addition the book addresses a number of open issues including but not limited to which singularities are permitted in a 2D Euler equation besides point

vortices Which other even more complex localized vortices could be contained in the Euler equation How do point vortices interact with potential waves *Stochastic Models of Structural Plasma Turbulence* Victor Yu Korolev,Nina N.

Skvortsova,2006 The series is devoted to the publication of high level monographs and surveys which cover the whole spectrum of probability and statistics The books of the series are addressed to both experts and advanced students **New**

Aspects Of Plasma Physics - Proceedings Of The 2007 Ictp Summer College On Plasma Physics Padma Kant Shukla,Lennart Stenflo,Bengt Eliasson,2008-03-13 The 2007 ICTP Summer College on Plasma Physics was held at the Abdus Salam International Centre for Theoretical Physics ICTP Trieste Italy during the period 30 July to 24 August 2007 The purpose of the summer college was to provide training for young scientists from all over the world mainly from third world countries and to give them the opportunity to interact with senior scientists in an informal manner A large number of talks were given by invited speakers and experts with information about the most recent advances in magnetic confinement fusion and tokamak physics intense laser plasma interactions and plasma based particle acceleration turbulence dusty plasmas and the emerging field of quantum plasmas A selected number of papers from the invited speakers appear in this book **Dust**

Plasma Interaction in Space P. K. Shukla,2002 Dust is ubiquitous in the universe and responsible for stellar and planetary formation Virtually all previous studies have considered the dust particulates to be a charge neutral component Satellite missions such as Voyager revealed the extent to which charged dust plays a role in astrophysics In most areas dust exists in the presence of a dilute plasma In such a plasma environment the dust becomes charged to a variety of processes eg photo ionisation collisions with electrons and ions thermionic emission etc Closer to home in the Earth s mesosphere rocket measurements and radar observations conclusively demonstrate the importance of charged dust in forming complex structures responsible for Polar Mesospheric Summer Echoes This book is the outcome of a periodic collaboration between a small group of scientists meeting twice a year at the International Space Science Institute ISSI in Bern Switzerland over a period of three years The book begins with a description of the fundamental physical processes which characterise dusty plasmas Starting with charging and shielding of isolated dust particles in a plasma environment the review progresses to non linear dust dynamics of spherical and irregular dust In an ensemble of a dust plasma system collective processes begin to manifest themselves in the form of new wave modes and instabilities which play an important role in the collective behaviour displayed in space and astrophysical environment Finally more exotic topics such as the Ising model for irregular dust grain alignment classical Casimir forces and chargeons are explored **Solitary Waves in Fluid Media** Claire David,Zhaosheng

Feng,2010 Since the first description by John Scott Russel in 1834 the solitary wave phenomenon has attracted considerable interests from scientists The most interesting discovery since then has been the ability to integrate most of the nonlinear wave equations which govern solitary waves from the Korteweg de Vries equation to the nonlinear Schrodinger equation in the 1960 s From that moment a huge amount of theoretical works can be found on solitary waves Due to the fact that many

physical phenomena can be described by a soliton model applications have followed each other in telecommunications

Wave-particle Interaction and Energization in Plasmas P. K. Shukla, 1994 *Emerging Applications of Plasma Science in Allied Technologies* Shahzad, Aamir, He, Maogang, 2024-01-29 The scientific application of plasma across a variety of fields continues to expand with new research at a remarkable rate The convergence between plasma science and domains such as energy materials semiconductor systems textiles medicine agriculture and space exploration is merely scratching the surface of the known possibilities of this technology Scientists require a sound understanding of the current state of these possibilities in order to push the technology further into the unknown potential of plasma science The chapters of the book *Emerging Applications of Plasma Science in Allied Technologies* coalesce to form a holistic panorama of innovations encompassing everything from sustainable energy solutions to antimicrobial applications This book stands as a definitive guide to the forefront of innovation and offers a comprehensive dive into the profound impacts of plasma science across diverse fields presenting a synthesis of cutting edge research and development It opens with a meticulous overview of the foundational principles underpinning plasma science serving as a springboard for the exploration of its myriad applications From fundamental physics and mechanisms to innovative designs and allied technologies the pages illuminate the multifaceted dimensions of plasma based advancements Plasma technology catalyzes advancements in modern medicine and healthcare The intricate interplay between plasma based treatments and living tissues is dissected revealing a landscape where innovation bridges the gap between science fiction and reality This book unpacks the critical role of plasma science in the eco friendly conversion of carbon dioxide thereby offering a beacon of hope in the struggle against climate change This book is a trailblazing resource for academics researchers and postgraduate students offering a comprehensive foundation in this groundbreaking field Industry professionals from biomedical engineers to agricultural innovators will find a treasure trove of insights to fuel their work This book beckons policymakers and visionaries to comprehend the potential of plasma science in steering humanity toward sustainable cleaner and healthier futures *Proceedings of the 2nd International Conference on Nonlinear Dynamics and Applications (ICNDA 2024), Volume 1* Asit Saha, Santo Banerjee, 2024-09-10 This book covers the latest advancements and applications of nonlinear dynamics in various fields of science and engineering presenting a curated selection of peer reviewed contributions at the 2nd International Conference on Nonlinear Dynamics and Applications ICNDA 2024 at Sikkim Manipal Institute of Technology SMIT Organized by the Department of Mathematics SMIT SMU this international conference provides a platform for scientists researchers and inventors to share their findings and exchange ideas in the ever evolving field of nonlinear dynamics This book comprises three volumes Volume 1 focuses on the investigation of nonlinear waves and plasma dynamics It covers topics such as strong Landau damping electron plasma waves ion acoustic waves dusty plasma dust acoustic waves dust ion acoustic waves kinetic Alfvén waves solitary wave shock waves periodic wave cnoidal wave superperiodic wave soliton resonance lump soliton multi soliton breather wave upper

hybrid wave atmospheric internal wave mathematical and analytical methods quantum and relativistic plasmas wave instabilities and interactions fractional and complex systems nonlinear optical phenomena Gaussian laser beam chaos and multistability and other specific plasma studies Literature 1992, Part 1 Astronomisches Recheninstitut, 2013-11-11

Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world *Frontiers in Modern Plasma Physics* Padma K. Shukla, Bengt Eliasson, Lennart Stenflo, 2008-10-16

The main focus of the workshop was on tokamak physics and magnetic confinement fusion plasma turbulence dusty plasmas intense laser plasma interactions plasma based particle acceleration and quantum plasmas including quantum electrodynamic effects The aim of the workshop was also to provide training for young scientists from all over the world mainly from third world countries and to give them the opportunity to interact with the senior scientists in an informal manner A selected number of papers by the invited speakers appears in this book **Scientific and Technical Aerospace Reports**, 1994 **The Physics of Alfvén Waves** Neil F. Cramer, 2011-02-10

Low frequency wave modes of magnetized inhomogeneous plasmas have been subject to intense study in the last decade because they play important roles in the transport of energy in the plasmas The Alfvén wave heating scheme has been investigated as a supplementary heating scheme for fusion plasma devices and it has been invoked as a model of the heating of the solar and stellar coronae This book covers the latest research into the properties and applications of low frequency wave modes in magnetized plasmas the Alfvén waves and magneto acoustic waves in the context of laboratory space and astrophysical plasmas In particular non ideal effects on the dispersion relation and absorption properties of linear and non linear waves are included such as ion cyclotron effects friction between the ionized plasma and a background gas of neutral atoms and the interaction of the plasma with dust particles The book also surveys the theory of Alfvén and magnetoacoustic waves in inhomogeneous plasmas as occur in realistic laboratory space and astrophysical plasmas with resulting localized wave modes such as surface waves Waves are considered under a variety of plasma conditions ranging from cold cosmic plasmas to hot laboratory and solar plasmas to the relativistic plasmas around pulsars **Physics of Space: Growth Points and Problems** Nicole Meyer-Vernet, Michel Moncuquet, Filippo Pantellini, 2011-06-28

Proceedings of the Second Rencontres de l'observatoire Observatoire de Paris Meudon France *Turbulent Transport in Magnetized Plasmas* Claude Wendell Horton, 2012

The book explains how magnetized plasmas self organize in states of electromagnetic turbulence that transports particles and energy out of the core plasma faster than anticipated by the fusion scientists designing magnetic confinement systems in the 20th century It

describes theory experiments and simulations in a unified and up to date presentation of the issues of achieving nuclear fusion power

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