

Diamond Waves

Boutique-sha

Small Divisor Problem in the Theory of Three-Dimensional Water Gravity Waves Gérard Iooss, Pavel I.

Plotnikov, 2009-06-05 The authors consider doubly-periodic travelling waves at the surface of an infinitely deep perfect fluid, only subjected to gravity g and resulting from the nonlinear interaction of two simply periodic travelling waves making an angle 2θ between them. Denoting by $\mu = gL/c^2$ the dimensionless bifurcation parameter (L is the wave length along the direction of the travelling wave and c is the velocity of the wave), bifurcation occurs for $\mu = \cos \theta$. For non-resonant cases, we first give a large family of formal three-dimensional gravity travelling waves, in the form of an expansion in powers of the amplitudes of two basic travelling waves. "Diamond waves" are a particular case of such waves, when they are symmetric with respect to the direction of propagation. The main object of the paper is the proof of existence of such symmetric waves having the above mentioned asymptotic expansion. Due to the occurrence of small divisors, the main difficulty is the inversion of the linearized operator at a non trivial point, for applying the Nash Moser theorem. This operator is the sum of a second order differentiation along a certain direction, and an integro-differential operator of first order, both depending periodically of coordinates. It is shown that for almost all angles θ , the 3-dimensional travelling waves bifurcate for a set of "good" values of the bifurcation parameter having asymptotically a full measure near the bifurcation curve in the parameter plane (θ, μ) .

My Little Pony: Princess Celestia and the Summer of Royal Waves G. M. Berrow, 2015-04-07 When anypony asks Princess Celestia for help, she is more than happy to be of service. So when Duchess Diamond Waves says she is in desperate need of assistance, the wise leader of Equestria clears her schedule. Arriving at Monacolt Magic Academy, Celestia notices that her dear old friend seems to have lost her sparkle. Diamond Waves confides that her beautiful city by the sea is on the brink of disaster and, having failed their exams, none of her pupils are prepared for what lies ahead. Diamond Waves says her colts and fillies are lacking focus, but that doesn't seem to be the case. When Celestia meet her summer school students, she is shocked to be greeted by a class full of very serious colts and fillies. What can Princess Celestia do to bring the magic back to Monacolt? © 2015 Hasbro. All Rights Reserved.

Nonlinear Water Waves with Applications to Wave-Current Interactions and Tsunamis Adrian

Constantin, 2011-12-01 This overview of some of the main results and recent developments in nonlinear water waves presents

fundamental aspects of the field and discusses several important topics of current research interest. It contains selected information about water-wave motion for which advanced mathematical study can be pursued, enabling readers to derive conclusions that explain observed phenomena to the greatest extent possible. The author discusses the underlying physical factors of such waves and explores the physical relevance of the mathematical results that are presented. The book is intended for mathematicians, physicists and engineers interested in the interplay between physical concepts and insights and the mathematical ideas and methods that are relevant to specific water-wave phenomena. The material is an expanded version of the author's lectures delivered at the NSF-CBMS Regional Research Conference in the Mathematical Sciences organized by the Mathematics Department of the University of Texas-Pan American in 2010.

IUTAM Symposium on Recent Advances of Acoustic Waves in Solids Tsung-Tsong Wu, Chien-Ching Ma, 2010-09-08
Rapid growth of the mobile communication market has triggered extensive research on the bulk as well as surface acoustic wave devices in the last decade. Quite a few important results on the modeling and simulation of Film Bulk Acoustic Resonator (FBAR) and Layered SAW devices were reported recently. The other recent advance of acoustic waves in solids is the so-called phononic crystals or phononic band-gap materials. Analogous to the band-gap of light in photonic crystals, acoustic waves in periodic elastic structures also exhibit band-gap. Important applications of phononic band gap materials can potentially be found with creating a vibration free environment in microstructures, and design of advanced acoustic frequency filter, etc. In addition to the wave electronics and phononic crystals, to facilitate the emerging needs in the quantitative nondestructive evaluation of materials, waves in anisotropic solids and/or electro-, magneto- interaction problems also regained much attention recently. Topics treated include: Waves in piezoelectric crystals; Simulation of advanced BAW and SAW devices; Analysis of band gaps in phononic structures; Experimental investigation of phononic structures; Waves in multilayered media; Waves in anisotropic solids and/or electro-, magneto- interaction problems.

Shock Waves in Solid State Physics G.I. Kanel', 2019-04-30
Methods and the latest results of experimental studies of the strength properties, polymorphism and metastable states of materials and substances with extremely short durations of shock-wave action are presented. The author provides a comprehensive and theoretical description of specific features of the dynamics of elastoplastic shock compression waves in relaxing media. The presentation is preceded by a detailed description of the theoretical foundations of the method and a brief discussion of the basic methods of generating and diagnosing shock waves in solids. Key Selling Features: Addresses dynamic elastic-plastic response, spallation, and shock-induced phase transformation. Provides a centralized presentation of topics of interest to the shock physics community Presents new data on the mechanism and basic patterns of sub-microsecond polymorphic transformations and phase transitions. Investigates destruction waves in shock-compressed glasses. Analyzes the behavior of highly hard brittle materials under shock-wave loading and ways to diagnose fracture.

Acoustic Waves Don Dissanayake, 2010-09-28 SAW devices are widely used in multitude of device concepts mainly in MEMS and communication electronics. As such, SAW based micro sensors, actuators and communication electronic devices are well known applications of SAW technology. For example, SAW based passive micro sensors are capable of measuring physical properties such as temperature, pressure, variation in chemical properties, and SAW based communication devices perform a range of signal processing functions, such as delay lines, filters, resonators, pulse compressors, and convolvers. In recent decades, SAW based low-powered actuators and microfluidic devices have significantly added a new dimension to SAW technology. This book consists of 20 exciting chapters composed by researchers and engineers active in the field of SAW technology, biomedical and other related engineering disciplines. The topics range from basic SAW theory, materials and phenomena to advanced applications such as sensors actuators, and communication systems. As such, in addition to theoretical analysis and numerical modelling such as Finite Element Modelling (FEM) and Finite Difference Methods (FDM) of SAW devices, SAW based actuators and micro motors, and SAW based micro sensors are some of the exciting applications presented in this book. This collection of up-to-date information and research outcomes on SAW technology will be of great interest, not only to all those working in SAW based technology, but also to many more who stand to benefit from an insight into the rich opportunities that this technology has to offer, especially to develop advanced, low-powered biomedical implants and passive communication devices.

Shock Waves in Materials Science Akira B. Sawaoka, 2012-12-06 In this volume, the shock compression technology of materials is described in parallel with the latest research results and their background. In the past, this type of technology was developed in connection with military techniques by certain particular research organizations. For this reason, researchers of materials in general have had less opportunity to make use of the technology. The conventional technology of shock compression has now been established, and is recognized as being remarkably useful as a means of materials science study. The feasibility of shock compression technology is dealt with in this book, as well as the latest research results for general material scientists. The shock synthesis of ceramics and intermetallic compounds, as well as shock compression behavior, are also described. In contrast to conventional works of this kind, this book describes shock compression studies performed by material scientists.

Shock Waves Kazuyoshi Takayama, 2012-12-06 Shock wave research covers important interdisciplinary areas which range from basic topics on gasdynamics, combustion and detonation, physico-chemistry of high temperature gases, plasma physics, astro and geophysics, materials science, astronautics and space technology to medical and industrial applications. This book includes 202 papers presented at the 18th the International Symposium on Shock Waves which describe the research frontier of shock wave phenomena and 14 plenary lectures which show the state of the art of various fields of shock wave research. This proceedings is a unique collection of most important and updated shock wave research.

Acoustic Waves Marco G. Beghi,2011-11-14 The concept of acoustic wave is a pervasive one, which emerges in any type of medium, from solids to plasmas, at length and time scales ranging from sub-micrometric layers in microdevices to seismic waves in the Sun's interior. This book presents several aspects of the active research ongoing in this field. Theoretical efforts are leading to a deeper understanding of phenomena, also in complicated environments like the solar surface boundary. Acoustic waves are a flexible probe to investigate the properties of very different systems, from thin inorganic layers to ripening cheese to biological systems. Acoustic waves are also a tool to manipulate matter, from the delicate evaporation of biomolecules to be analysed, to the phase transitions induced by intense shock waves. And a whole class of widespread microdevices, including filters and sensors, is based on the behaviour of acoustic waves propagating in thin layers. The search for better performances is driving to new materials for these devices, and to more refined tools for their analysis.

Shock Waves in Condensed Matter Y. M. Gupta,2012-12-06 The Fourth American Physical Society Topical Conference on Shock Waves in Condensed Matter was held in Spokane, Washington, July 22-25, 1985. Two hundred and fifty scientists and engineers representing thirteen countries registered at the conference. The countries represented included the United States of America, Australia, Canada, The People's Republic of China, France, India, Israel, Japan, Republic of China (Taiwan), United Kingdom, U. S. S. R, Switzerland and West Germany. One hundred and sixty-two technical papers, covering recent developments in shock wave and high pressure physics, were presented. All of the abstracts have been published in the September 1985 issue of the Bulletin of the American Physical Society. The topical conferences, held every two years since 1979, have become the principal forum for shock wave studies in condensed materials. Both formal and informal technical discussions regarding recent developments conveyed a sense of excitement. Consistent with the past conferences, the purpose of this conference was to bring together scientists and engineers studying the response of condensed matter to dynamic high pressures and temperatures. Papers covering experimental, theoretical, and numerical studies of condensed matter properties were presented. A noteworthy feature of this conference was the participation by several leading scientists engaged in static high pressure research. Donald Curran served as the Master of Ceremonies at the conference banquet, which was attended by two hundred and seventy-five conference participants and guests including Dr. Samuel Smith, the new President of Washington State University. Dr.

History of Shock Waves, Explosions and Impact Peter O. K. Krehl,2008-09-24 This unique and encyclopedic reference work describes the evolution of the physics of modern shock wave and detonation from the earlier and classical percussion. The history of this complex process is first reviewed in a general survey. Subsequently, the subject is treated in more detail and the book is richly illustrated in the form of a picture gallery. This book is ideal for everyone professionally interested in shock wave phenomena.

Shock Waves in Condensed Matter - 1983 J.R. Asay,R.A. Graham,G.K. Struab,2012-12-02 Shock Waves in Condensed

Matter - 1983 covers the proceedings of the American Physical Society Topical Conference, held in Santa Fe, New Mexico on July 18-21, 1983. The book focuses on the response of matter to dynamic high pressure and temperature. The selection first elaborates on the review of theoretical calculations of phase transitions and comparisons with experimental results; theoretical and experimental studies of shock-compressed benzene and polybutene; and theory of the iron equation of state and melting curve to very high pressures. The text then ponders on nonhydrostatic effects in stress-wave induced phase transformation of calcite; Bauschinger effect model suitable for use in large computer codes; and strain rate sensitivity prediction for porous bed compaction. The manuscript takes a look at flaw nucleation and energetics of dynamic fragmentation, shock loading behavior of fused quartz, and aluminum damage simulation in high-velocity impact. Shock wave diagnostics by time-resolved infrared radiometry and non-linear Raman spectroscopy; Raman scattering temperature measurement behind a shock wave; and experiments and simulation on laser-driven shock wave evolution in aluminum targets are also discussed. The selection is a dependable reference for scientists and readers interested in the response of matter when exposed to dynamic high pressure and temperature.

Intense Shock Waves on Earth and in Space Vladimir Fortov, 2021-05-26 This book focuses on the non-traditional branches of physics and mechanics of shock waves that have arisen recently in connection with the intensive study of these waves in a wide variety of phenomena - from nuclear matter to clusters of galaxies. The book is devoted to the various physical phenomena and properties of intense shock waves. The author addresses methods of generation, diagnostics, as well as theoretical methods for describing shock waves at extremely high pressures and temperatures in laboratory and quasi-laboratory conditions. The state of materials with high energy density generated by shock wave compression is discussed. In addition, the book aims to systematize, generalize, and describe from a universal viewpoint the extensive theoretical and experimental material on the physics of high energy densities - the physics and mechanics of intense shock waves. The book is based on lectures delivered by the author at the Moscow Institute of Physics and Technology, the Higher School of Physics of Rosatom State Nuclear Energy Corporation, as well as overviews presented at many scientific conferences and symposia. It is useful to a wide range of researchers in natural sciences, giving them access to original works and allowing them to navigate the fascinating problems of the modern science of intense shock waves.

A Book of Waves Stefan Helmreich, 2023-07-03 In *A Book of Waves* Stefan Helmreich examines ocean waves as forms of media that carry ecological, geopolitical, and climatological news about our planet. Drawing on ethnographic work with oceanographers and coastal engineers in the Netherlands, the United States, Australia, Japan, and Bangladesh, Helmreich details how scientists at sea and in the lab apprehend waves' materiality through abstractions, seeking to capture in technical language these avatars of nature at once periodic and irreversible, wild and pacific, ephemeral and eternal. For researchers and their publics, the meanings of waves also reflect visions of the ocean as an environmental infrastructure

fundamental to trade, travel, warfare, humanitarian rescue, recreation, and managing sea level rise. Interleaving ethnographic chapters with reflections on waves in mythology, surf culture, feminist theory, film, Indigenous Pacific activism, Black Atlantic history, cosmology, and more, Helmreich demonstrates how waves mark out the wakes and breaks of social histories and futures.

Waves in Oceanic and Coastal Waters Leo H. Holthuijsen,2010-02-04 *Waves in Oceanic and Coastal Waters* describes the observation, analysis and prediction of wind-generated waves in the open ocean, in shelf seas, and in coastal regions with islands, channels, tidal flats and inlets, estuaries, fjords and lagoons. Most of this richly illustrated book is devoted to the physical aspects of waves. After introducing observation techniques for waves, both at sea and from space, the book defines the parameters that characterise waves. Using basic statistical and physical concepts, the author discusses the prediction of waves in oceanic and coastal waters, first in terms of generalised observations, and then in terms of the more theoretical framework of the spectral energy balance. He gives the results of established theories and also the direction in which research is developing. The book ends with a description of SWAN (Simulating Waves Nearshore), the preferred computer model of the engineering community for predicting waves in coastal waters.

Shock Waves @ Marseille I Raymond Brun, Lucien Z. Dumitrescu,2012-12-06 Recently, there have been significant advances in the fields of high-enthalpy hypersonic flows, high-temperature gas physics, and chemistry shock propagation in various media, industrial and medical applications of shock waves, and shock-tube technology. This series contains all the papers and lectures of the 19th International Symposium on Shock Waves held in Marseille in 1993. They are published in four topical volumes, each containing papers on related topics, and preceded by an overview written by a leading international expert. The volumes may be purchased independently.

Infrared and Millimeter Waves V4 Kenneth J. Button,2014-04-08 *Infrared and Millimeter Waves* is a series of books that compiles the work of several authors, with each volume focusing on certain aspects of infrared and millimeter waves, such as sources of radiation, instrumentation, and millimeter systems. This book concerns itself with millimeter systems. Comprised of seven chapters, this book discusses several systems that involve the use of millimeter waves, such as radars and missile guidance systems. The first chapter provides a comprehensive overview of millimeter waves, while the succeeding chapter discusses several technologies that involve millimeter systems, such as radar, missile guidance, and imaging systems. This book will be of great use to researchers and professionals whose work involves infrared and millimeter waves.

An Introduction to Metamaterials and Waves in Composites Biswajit Banerjee,2011-06-07 Requiring no advanced knowledge of wave propagation, *An Introduction to Metamaterials and Waves in Composites* focuses on theoretical aspects of metamaterials, periodic composites, and layered composites. The book gives novices a platform from which they can start

exploring the subject in more detail. After introducing concepts related to elasticity, acoustics, and electrodynamics in media, the text presents plane wave solutions to the equations that describe elastic, acoustic, and electromagnetic waves. It examines the plane wave expansion of sources as well as scattering from curved interfaces, specifically spheres and cylinders. The author then covers electrodynamic, acoustic, and elastodynamic metamaterials. He also describes examples of transformations, aspects of acoustic cloaking, and applications of pentamode materials to acoustic cloaking. With a focus on periodic composites, the text uses the Bloch-Floquet theorem to find the effective behavior of composites in the quasistatic limit, presents the quasistatic equations of elastodynamic and electromagnetic waves, and investigates Brillouin zones and band gaps in periodic structures. The final chapter discusses wave propagation in smoothly varying layered media, anisotropic density of a periodic layered medium, and quasistatic homogenization of laminates. This book provides a launch pad for research into elastic and acoustic metamaterials. Many of the ideas presented have yet to be realized experimentally—the book encourages readers to explore these ideas and bring them to technological maturity.

Essential Sashiko Boutique-sha,2022-10-25 The go-to reference for beginners and seasoned stitchers alike of the most useful Sashiko embroidery stitches! Essential Sashiko provides full-size templates and patterns for 92 beautiful sashiko stitches -- all the patterns you are likely to need for any project you wish to undertake. It provides detailed lessons on how to form the stitches and how to use the accompanying templates to create your patterns. Instructions for 11 easy projects are included so you can try out these lovely stitches for yourself! This comprehensive all-in-one book includes: Templates for all the most useful Moyozashi (straight, curved and zigzag line) and Hitomezashi (one-stitch) patterns A handy grid for creating diagonal stitch patterns Instructions for 11 simple bags, pouches, placemats, book covers and more! For quilting, mending, and the sheer joy of needlecraft, Essential Sashiko is the perfect choice for beginners and seasoned stitchers alike.

NASA Technical Note ,1962

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