

SPRINGER TRACTS IN MODERN PHYSICS

Volume 129

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Dynamics of Topological Magnetic Solitons

Experiment and Theory



Springer-Verlag Berlin Heidelberg GmbH

Springer Tracts In Modern Physics Volume 62

André Pingel



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Nuclear Science Abstracts ,1972 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1974 *Springer Handbook of Lasers and Optics* Frank Träger,2012-05-05 This new edition features numerous updates and additions Especially 4 new chapters on Fiber Optics Integrated Optics Frequency Combs and Interferometry reflect the changes since the first edition In addition major complete updates for the chapters Optical Materials and Their Properties Optical Detectors Nanooptics and Optics far Beyond the Diffraction Limit Features Contains over 1000 two color illustrations Includes over 120 comprehensive tables with properties of optical materials and light sources Emphasizes physical concepts over extensive mathematical derivations Chapters with summaries detailed index Delivers a wealth of up to date references *Atoms In Electromagnetic Fields (2nd Edition)* Claude Cohen-tannoudji,2004-11-25 The production quality is very high even the smallest symbols are easily readable and some papers are reproduced in color The clarity of the exposition the wide range of topics and the logic of the presentation make this a valuable teaching reference This book is highly recommended for physicists and students working on atoms in intense laser fields laser cooling and trapping and Bose Einstein condensation Optics Photonics News This invaluable book presents papers written during the last 40 years by Claude Cohen Tannoudji and his collaborators on various physical effects which can be observed on atoms interacting with electromagnetic fields It consists of a personal selection of review papers lectures given at schools as well as original experimental and theoretical papers Emphasis is placed on physical mechanisms and on general approaches such as the dressed atom approach having a wide range of applications Various topics are discussed such as atoms in intense laser fields photon correlations quantum jumps radiative corrections laser cooling and trapping Bose Einstein condensation In this new edition about 200 page of new material has been added *Neutron Physics* ,2006-04-11 **Experimental and Theoretical Investigations of the Physical Processes Related to the Retention Capability of a Double Screen Element against Liquid Hydrogen in Earth's Gravity and in Microgravity with Respect to the Applied Stimuli** André Pingel,2022-08-04 Metal screens are commonly used as components for fluid handling in spacecraft and rocket tank designs In most cases the screens perform a passive separation of the propellant phases The separation of the liquid from the gaseous propellant phase is a special challenge Liquid gas phase separation means that the gaseous phase is allowed to enter a phase separation device while the liquid phase is blocked The technical application of this process is the depressurization in a propellant tank A certain amount of the gaseous propellant phase is vented from the tank through the gas port The liquid propellant phase remains in the tank in order to be stored for the engine However if the tank causes a liquid movement during the depressurization a part of the liquid can potentially enter the gas port In order to prevent the unwanted liquid outflow a separation of the liquid from the gas is necessary This is possible with the aid of a double screen element and has already been performed for storable liquids in Earth s gravity and microgravity as well as for cryogenic liquids in Earth s

gravity At the current state of the art the separation of the liquid from the gaseous phase of the cryogenic propellant hydrogen using a double screen element has not been performed in microgravity However with regard to a possible application it is mandatory to investigate the function of the double screen element for the real propellant under relevant environmental conditions In this work a cryogenic test facility has been developed and operated successfully under Earth's gravity and microgravity conditions using the drop tower at the University of Bremen Hereby the original cryogenic propellant phases liquid and gaseous hydrogen have been used The experiments show the appearance of the physical processes which are related to the retention capability of a double screen element against liquid hydrogen Furthermore these physical processes can obviously be influenced by an unknown boundary condition at the screens the screen saturation This unknown boundary condition in turn can obviously be influenced by a certain stimulus which causes a special fluid mechanical process A simplified mathematical and two numerical models have been developed which combine the observed physical processes in the experiments Two fitting parameters are introduced which influence the flow through screen pressure loss of the liquid and the gaseous hydrogen phase After the fitting to experimental data the two fitting parameters have been interpreted with respect to a possible screen saturation The results lead to a prediction of the unknown boundary condition and indicate that a partial saturation of the screens with liquid could be present in each considered experiment This can possibly lead to a major influence of the overall resistance of the double screen element against liquid hydrogen

At The Frontier Of Particle Physics: Handbook Of Qcd (Volume 4) Misha Shifman, 2002-08-30 This is the fourth and last volume of the invaluable publication At the Frontier of Particle Physics Handbook of QCD In this volume the reader will find three important sections The first is devoted to QCD based phenomenology It covers issues deeply woven into the fabric of particle physics weak interactions of light quarks J Bijnens and heavy quarkonium physics A Hoang The second section is a report on recent advances in the understanding of confinement in three dimensions in the Georgi Glashow model I Kogan and A Kovner The third section deals with lattice QCD A Kronfeld and loop equations A Dubin and Yu Makeenko The five reviews in Volume 4 together with the 33 reviews in Volumes 1-3 constitute a full encyclopedia covering all aspects of quantum chromodynamics as we know it today The articles have been written by recognized experts in this field Combining features of a handbook and a textbook this is the most comprehensive source of information on the current status of QCD It is intended for students as well as physicists both theorists and experimentalists *Solid-State Physics* G. Bauer, G. Borstel, H. J.

Falge, A. Otto, 2006-04-11 **Optical Properties of Materials and Their Applications** Jai Singh, 2020-01-07 Provides a semi quantitative approach to recent developments in the study of optical properties of condensed matter systems Featuring contributions by noted experts in the field of electronic and optoelectronic materials and photonics this book looks at the optical properties of materials as well as their physical processes and various classes Taking a semi quantitative approach to the subject it presents a summary of the basic concepts reviews recent developments in the study of optical properties of

materials and offers many examples and applications Optical Properties of Materials and Their Applications 2nd Edition starts by identifying the processes that should be described in detail and follows with the relevant classes of materials In addition to featuring four new chapters on optoelectronic properties of organic semiconductors recent advances in electroluminescence perovskites and ellipsometry the book covers optical properties of disordered condensed matter and glasses concept of excitons photoluminescence photoinduced changes and electroluminescence in noncrystalline semiconductors and photoinduced bond breaking and volume change in chalcogenide glasses Also included are chapters on nonlinear optical properties of photonic glasses kinetics of the persistent photoconductivity in crystalline III V semiconductors and transparent white OLEDs In addition readers will learn about excitonic processes in quantum wells optoelectronic properties and applications of quantum dots and more Covers all of the fundamentals and applications of optical properties of materials Includes theory experimental techniques and current and developing applications Includes four new chapters on optoelectronic properties of organic semiconductors recent advances in electroluminescence perovskites and ellipsometry Appropriate for materials scientists chemists physicists and electrical engineers involved in development of electronic materials Written by internationally respected professionals working in physics and electrical engineering departments and government laboratories Optical Properties of Materials and Their Applications 2nd Edition is an ideal book for senior undergraduate and postgraduate students and teaching and research professionals in the fields of physics chemistry chemical engineering materials science and materials engineering *Books in Print* ,1991

Atoms in Electromagnetic Fields Claude Cohen-Tannoudji,2004 This invaluable book presents papers written during the last 40 years by Claude Cohen Tannoudji and his collaborators on various physical effects which can be observed on atoms interacting with electromagnetic fields It consists of a personal selection of review papers lectures given at schools as well as original experimental and theoretical papers Emphasis is placed on physical mechanisms and on general approaches such as the dressed atom approach having a wide range of applications Various topics are discussed such as atoms in intense laser fields photon correlations quantum jumps radiative corrections laser cooling and trapping BoseEinstein condensation In this new edition about 200 page of new material has been added

Physics, Chemistry And Application Of Nanostructures - Reviews And Short Notes To Nanomeeting-2005 Victor E Borisenko,Sergei Vasil'evich Gaponenko,Valerij S Gurin,2005-04-28 This comprehensive volume presents invited reviews and short notes with exciting new results obtained in fabrication study and application of nanostructures which promise a new generation of electronic and optoelectronic devices The rapid progress in nanoelectronics and optoelectronics molecular electronics and spintronics nanotechnology and quantum processing of information are covered

Electronic Excitations in Organic Based Nanostructures ,2003-11-13 The first book devoted to a systematic consideration of electronic excitations and electronic energy transfer in organic crystalline multilayers and organics based nanostructures quantum wells quantum wires quantum

dots microcavities The ingenious combination of organic with inorganic materials in one and the same hybrid structure is shown to give qualitatively new opto electronic phenomena potentially important for applications in nonlinear optics light emitting devices photovoltaic cells lasers and so on The book will be useful not only for physicists but also for chemists and biologists To help the nonspecialist reader three Chapters which contain a tutorial and updated introduction to the physics of electronic excitations in organic and inorganic solids have been included hybrid Frenkel Wannier Mott excitons microcavities with crystalline and disordered organics electronic excitation at donor acceptor interfaces cold photoconductivity at donor acceptor interface cumulative photovoltage Feorster transfer energy in microcavity New concepts for LEDs

Quantum Statistics in Optics and Solid-State Physics R. Graham,F. Haake,2006-04-11 Progress in Optics ,1980-01-01 Progress in Optics Ultrafast Magnetization Dynamics Simon Woodford,2008 International Tables for Crystallography, Volume C E. Prince,2004-01-16 International Tables for Crystallography is the definitive resource and reference work for crystallography and structural science Each of the volumes in the series contains articles and tables of data relevant to crystallographic research and to applications of crystallographic methods in all sciences concerned with the structure and properties of materials Emphasis is given to symmetry diffraction methods and techniques of crystal structure determination and the physical and chemical properties of crystals The data are accompanied by discussions of theory practical explanations and examples all of which are useful for teaching Volume C provides the mathematical physical and chemical information needed for experimental studies in structural crystallography This volume covers all aspects of experimental techniques using all three principal radiation types X ray electron and neutron from the selection and mounting of crystals and production of radiation through data collection and analysis to interpretation of results Each chapter is supported by a substantial collection of references and the volume ends with a section on precautions against radiation injury Eleven chapters have been revised corrected or updated for the third edition of Volume C More information on the series can be found at <http://it.iucr.org>

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