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Dark matter and dark energy... a solution Proceedings of the ... Symposium on Automated Integrated Circuits Manufacturing Proceedings of the Fifth Symposium on Automated Integrated Circuits Manufacturing Intermediate Electromagnetic Theory Surfactants in Solution Electromagnetic Fields American Journal of Physics Dynamics of Solutions and Fluid Mixtures by NMR Nuclear Science Abstracts Potential Theory in Applied Geophysics Science Abstracts The Method of Nuclear Induction Modern Optics Principles of Magnetic Resonance Electromagnetic Fields U.S. Government Research Reports Ferromagnetic Resonance Nuclear Magnetic Resonance 49 Intermediate Dynamics Digest of Literature on Dielectrics Nuclear Magnetic Resonance: Volume 48 Contrast Agents I Whitaker's Cumulative Book List Spectroscopy With Coherent Radiation: Selected Papers Of Norman F Ramsey (With Commentary) Spectroscopy with Coherent Radiation IBM Journal of Research and Development Jena Review Laser Handbook British Books in Print Encyclopedia of Chemical Physics and Physical Chemistry Encyclopedia of Chemical Physics and Physical Chemistry: Fundamentals Multipole Theory in Electromagnetism Device-Free Object Tracking Using Passive Tags AAPT Announcer Proceedings of the IEEE. Physics Briefs Introduction to Theoretical Physics, Classical Mechanics, and Electrodynamics Advanced University Physics Subject Guide to Books in Print Nuclear Magnetic Resonance

Dark matter and dark energy... a solution

2019-04-01

according to current observations two mysterious phenomena appear in the universe that science has not yet explained these are mass or dark matter and dark energy it is known of the existence of dark matter among other effects by the study of the rotation of galaxies where it is appreciated that the outer stars should come out tangentially if only the gravitational force of the mass seen is considered concluding that there must be a hidden mass or matter or perhaps some unknown effect that implies greater gravitational force on the other hand based on the observations of astronomer hubble in the twenties of the previous century it was determined that the universe is expanding from its origin or big bang considering that the gravitational force between galaxies causes expansion to be increasingly slower the surprise was that at the end of the last century it was observed that in the distant galaxies there was no retreat but they accelerated that is they are increasingly separated more quickly ignoring the precedence of the energy that produces the effect to which was named dark energy in this small book a suggestive proposal is exposed describing effects in the movement of bodies of great mass that can be applied to the understanding of the origin of the dark matter and dark energy considering that in the process of expansion the dark mass is transformed into dark energy fulfilling the laws of conservation of energy and the linear momentum

Proceedings of the ... Symposium on Automated Integrated Circuits Manufacturing

1990

this invaluable text has been developed to provide students with more background on the applications of electricity and magnetism particularly with those topics which relate to current research for example waveguides both metal and dielectric are discussed more thoroughly than in most texts because they are an important laboratory tool and important components of modern communications in a sense this book modernizes the topics covered in the typical course on electricity and magnetism it provides not only solid background for the student who chooses a field which uses techniques requiring knowledge of electricity and magnetism but also general background for the physics major

Proceedings of the Fifth Symposium on Automated Integrated Circuits Manufacturing

1990

this and its companion volumes 8 9 and 10 document the proceedings of the 6th international symposium on surfactants in solution held in new delhi india august 18 22 1986 under the joint auspices of the indian society for surface science and technology and indian institute of technology delhi as this symposium was a landmark it represented the tenth anniversary of this series of symposia so it is very apropos to reflect on how these symposia have evolved to their present size and status the pedigree of this series of symposia goes back to 1976 when the premier symposium in this series was held actually in 1976 it was a modest start and it was not possible at that time to gaze at the crystal ball and predict what would be the state of affairs in 1986 for historical purposes it should be recorded here that the first symposium was held in albany ny under the title micellization solubilization and microemulsions the second symposium was christened solution chemistry of surfactants and was held in knoxville tn in 1978 the venue for the third symposium in 1980 was potsdam ny and it was dubbed international symposium on solution behavior of surfactants theoretical and applied aspects

Intermediate Electromagnetic Theory

2001

this revised edition provides patient guidance in its clear and organized presentation of problems it is rich in variety large in number and provides very careful treatment of relativity one outstanding feature is the inclusion of simple standard examples demonstrated in different methods that will allow students to enhance and understand

their calculating abilities there are over 145 worked examples virtually all of the standard problems are included

Surfactants in Solution

2012-12-06

indhold this study analyzes the molecular data obtained as the result of the time dependence of nmr spectra the logical sequence of material should enable those unfamiliar with aspects of molecular dynamics to understand the specialized topics and applications discussed in later chapters

Electromagnetic Fields

1986-07-24

this book introduces the principles of gravitational magnetic electrostatic direct current electrical and electromagnetic fields with detailed solutions of laplace and electromagnetic wave equations by the method of separation of variables discussion includes behaviours of the scalar and vector potential and the nature of the solutions of these boundary value problems along with the use of complex variables and conformal transformation green s theorem green s formula and green s functions

American Journal of Physics

1999

modern optics is a fundamental study of the principles of optics using a rigorous physical approach based on maxwell s equations the treatment provides the mathematical foundations needed to understand a number of applications such as laser optics fiber optics and medical imaging covered inan engineering curriculum as well as the traditional topics covered in a physics based course in optics in addition to treating the fundamentals in optical science the student is given an exposure to actual optics engineering problems such as paraxial matrix optics aberrations with experimentalexamples fourier transform optics fresnel kirchhoff formulation gaussian waves thin films photonic crystals surface plasmons and fiber optics through its many pictures figures and diagrams the text provides a good physical insight into the topics covered the course content can bemodified to reflect the interests of the instructor as well as the student through the selection of optional material provided in appendixes

Dynamics of Solutions and Fluid Mixtures by NMR

1995-06-08

the first edition of this book was written in 1961 when i was morris loeb lecturer in physics at harvard in the preface i wrote the problem faced by a beginner today is enormous if he attempts to read a current article he often finds that the first paragraph refers to an earlier paper on which the whole article is based and with which the author naturally assumes familiarity that reference in turn is based on another so the hapless student finds himself in a seemingly endless retreat i have felt that graduate students or others beginning research in magnetic resonance needed a book which really went into the details of calculations yet was aimed at the beginner rather than the expert the original goal was to treat only those topics that are essential to an understanding of the literature thus the goal was to be selective rather than comprehensive with the passage of time important new concepts were becoming so all pervasive that i felt the need to add them that led to the second edition which dr lotsch physics editor of springer verlag encouraged me to write and which helped launch the springer series in solid state sciences now ten years later that book and its 1980 revised printing is no longer available meanwhile workers in magnetic resonance have continued to develop startling new insights

Nuclear Science Abstracts

1971-04

the book is primarily aimed at experts working in electrical engineering and physics and intends to give an overview of the theory of electromagnetic fields and of the basic principles of their analytical and numerical analysis book jacket title summary field provided by blackwell north america inc all rights reserved

Potential Theory in Applied Geophysics

2007-11-15

ferromagnetic resonance the phenomenon of resonant absorption of a high frequency magnetic field in ferromagnetic substances is a collection of papers on the basic theory of ferromagnetic resonance the book discusses the theory of ferromagnetic resonance in detail and the investigations and treatments of problems in this theory the text consists of nine chapters covering such topics as the linear approximation of ferromagnetic resonance non linear processes occurring during ferromagnetic resonance in ferromagnetic semiconductor the spin wave theory of ferro and antiferromagnetism and its application to the problem of ferromagnetic resonance and the theory of the line width of the resonance absorption of the energy of a uhf field in ferromagnetics physicists will find the book very useful

Science Abstracts

1963

applications of nuclear magnetic resonance span a wide range of scientific disciplines from chemistry and physics to medicine for those wanting to become acquainted with nmr or seasoned practitioners this is a valuable source of current methods and applications

The Method of Nuclear Induction

1949

intended for the two semester upper division undergraduate classical mechanics course intermediate dynamics provides a student friendly approach the text begins with an optional review of elementary physical concepts and continues to an in depth study of mechanics each chapter includes numerous accessible exercises that help students review and understand key material while rigorous end of chapter problems challenge students to find solutions based on concepts discussed in the chapter additional computer problems are offered at the end of each chapter for those who would like to utilize numerical techniques

Modern Optics

2018

applications of nuclear magnetic resonance span a wide range of scientific disciplines from chemistry and physics to medicine for those wanting to become acquainted with nmr or seasoned practitioners this is a valuable source of current methods and applications

Principles of Magnetic Resonance

2013-04-17

extracellular mri and x ray contrast agents are characterized by their pharmacokinetic behaviour after intravascular injection their plasma level time curve is characterized by two phases the agents are rapidly distributed between plasma and interstitial spaces followed by renal elimination with a terminal half life of approximately 1.2 hours they are excreted via the kidneys in unchanged form by glomerular filtration extracellular water soluble contrast agents to be applied for x ray imaging were introduced into clinical practice in 1923 since that time they have proved to be most valuable tools in diagnostics they contain iodine as the element of choice with a sufficiently high atomic weight difference to organic tissue as positive contrast agents their attenuation of radiation is higher compared with the attenuation of the surrounding tissue by this contrast enhancement x ray diagnostics could be improved dramatically in 2,4,6-triiodobenzoic acid derivatives iodine is firmly bound nowadays diamides of the 2,4,6-triiodo-5-acylamino isophthalic acid like iopromide ultravist fig 1 are used as non ionic neutral x ray contrast agents in most cases 1

Electromagnetic Fields

1998

this invaluable volume contains a biography of nobel laureate norman f ramsey as well as reprints and retrospective commentaries on 56 papers relating to spectroscopy with coherent radiation the earliest papers describe his work with i i rabi developing the then new magnetic resonance method and its uses to measure magnetic moments of the different forms of hydrogen and to discover the deuteron electric quadrupole moment later papers include his invention of the method of coherent separated oscillatory fields the development of the atomic hydrogen maser and the uses of these methods to measure properties of nucleons nuclei atoms and molecules and to test parity and time reversal symmetries other papers present the first successful theories of nuclear magnetic shielding nmr chemical shifts electron coupled nuclear spin spin interactions and negative absolute temperatures

U.S. Government Research Reports

1962

this invaluable volume contains a biography of nobel laureate norman f ramsey as well as reprints and retrospective commentaries on 56 papers relating to spectroscopy with coherent radiation the earliest papers describe his work with i i rabi developing the then new magnetic resonance method and its uses to measure magnetic moments of the different forms of hydrogen and to discover the deuteron electric quadrupole moment later papers include his invention of the method of coherent separated oscillatory fields the development of the atomic hydrogen maser and the uses of these methods to measure properties of nucleons nuclei atoms and molecules and to test parity and time reversal symmetries other papers present the first successful theories of nuclear magnetic shielding nmr chemical shifts electron coupled nuclear spin spin interactions and negative absolute temperatures

Ferromagnetic Resonance

2016-06-06

the encyclopedia of physical chemistry and chemical physics introduces possibly unfamiliar areas explains important experimental and computational techniques and describes modern endeavors the encyclopedia quickly provides the basics defines the scope of each subdiscipline and indicates where to go for a more complete and detailed explanation particular attention has been paid to symbols and abbreviations to make this a user friendly encyclopedia care has been taken to ensure that the reading level is suitable for the trained chemist or physicist the encyclopedia is divided in three major sections fundamentals the mechanics of atoms and molecules and their interactions the macroscopic and statistical description of systems at equilibrium and the basic ways of treating reacting systems the contributions in this section

assume a somewhat less sophisticated audience than the two subsequent sections at least a portion of each article inevitably covers material that might also be found in a modern undergraduate physical chemistry text methods the instrumentation and fundamental theory employed in the major spectroscopic techniques the experimental means for characterizing materials the instrumentation and basic theory employed in the study of chemical kinetics and the computational techniques used to predict the static and dynamic properties of materials applications specific topics of current interest and intensive research for the practicing physicist or chemist this encyclopedia is the place to start when confronted with a new problem or when the techniques of an unfamiliar area might be exploited for a graduate student in chemistry or physics the encyclopedia gives a synopsis of the basics and an overview of the range of activities in which physical principles are applied to chemical problems it will lead any of these groups to the salient points of a new field as rapidly as possible and gives pointers as to where to read about the topic in more detail

Nuclear Magnetic Resonance 49

2023-11-29

this book provides an introduction to the classical quantum and symmetry aspects of multipole theory demonstrating the successes of the theory and also its unphysical aspects it presents a transformation theory which removes these unphysical properties the book will be of interest to physics students wishing to advance their knowledge of multipole theory and also a useful reference work for molecular and optical physicists theoretical chemists working on multipole effects solid state physicists studying the effects of electromagnetic fields on condensed matter engineers and applied mathematicians with interests in anisotropic materials an interesting recent development has been the increasing use of computer calculations in applications of multipole theory the book will assist computational physicists and chemists wishing to work in this area to acquire the necessary background in multipole theory

Intermediate Dynamics

2010

this springerbrief examines the use of cheap commercial passive rfid tags to achieve accurate device free object tracking it presents a sensitive detector named twins which uses a pair of adjacent passive tags to detect uncooperative targets such as intruders twins leverages a newly observed phenomenon called critical state that is caused by interference among passive tags the author expands on the previous object tracking methods which are mostly device based and reveals a new interference model and their extensive experiments for validation a prototype implementation of the twins based intrusion detection scheme with commercial off the shelf reader and tags is also covered in this springerbrief device free object tracking using passive tags is designed for researchers and professionals interested in smart sensing localization rfid and internet of things applications the content is also useful for advanced level students studying electrical engineering and computer science

Digest of Literature on Dielectrics

1957

vols 34 include section waves and electrons

Nuclear Magnetic Resonance: Volume 48

2022-11-14

to move from empirical based physics to the theoretical abstractness required for advanced physics requires a paradigmatic shift in logic that can challenge even the brightest mind grasping the play of phenomena as they are described in introductory compendiums does not necessarily create a foundation that allows for the building of a bridge to the higher levels of theoretical physics in the first edition of advanced university physics respected physicists stuart palmer and mircea rogalski built that

bridge and then guided readers across it serving as a supplement to the standard advanced physics syllabus their work provided a succinct review of course material while encouraging the development of a more cohesive understanding of theoretical physics now after incorporating suggestions from many readers and colleagues the two authors have revised and updated their original work to produce a second even more poignant edition succinct cohesive and comprehensive advanced university physics second edition brings individuals schooled in the rudiments of physics to theoretical fluency in a progression of concise chapters the text clarifies concepts from newtonian laws to nuclear dynamics while introducing and building upon the theoretical logic required to operate in the world of contemporary physics some chapters have been combined to improve relational clarity and new material has been added to cover the evolving concepts that have emerged over the last decade in this highly fluid field the authors have also added a substantial amount of relevant problems and at least one pertinent example for every chapter those already steeped in physics will continue to find this work to be a useful reference as the book s 47 chapters provide the opportunity to become refreshed and updated on a great number of easily identified topics

Contrast Agents I

2002-01-22

as a spectroscopic method nuclear magnetic resonance nmr has seen spectacular growth over the past two decades both as a technique and in its applications today the applications of nmr span a wide range of scientific disciplines from physics to biology to medicine each volume of nuclear magnetic resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic this specialist periodical report reflects the growing volume of published work involving nmr techniques and applications in particular nmr of natural macromolecules which is covered in two reports nmr of proteins and nucleic acids and nmr of carbohydrates lipids and membranes for those wanting to become rapidly acquainted with specific areas of nmr this title provides unrivalled scope of coverage seasoned practitioners of nmr will find this an invaluable source of current methods and applications volume 33 covers literature published from june 2002 to may 2003 specialist periodical reports provide systematic and detailed review coverage in major areas of chemical research compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis

Whitaker's Cumulative Book List

1986

Spectroscopy With Coherent Radiation: Selected Papers Of Norman F Ramsey (With Commentary)

1998-06-04

Spectroscopy with Coherent Radiation

1998

IBM Journal of Research and Development

1959

Jena Review

1980

Laser Handbook

1972

British Books in Print

1985

Encyclopedia of Chemical Physics and Physical Chemistry

2023-07-03

Encyclopedia of Chemical Physics and Physical Chemistry: Fundamentals

2001

Multipole Theory in Electromagnetism

2004-10-14

Device-Free Object Tracking Using Passive Tags

2014-11-21

AAPT Announcer

1979

Proceedings of the IEEE.

1956

Physics Briefs

1989

Introduction to Theoretical Physics, Classical Mechanics, and Electrodynamics

1963

Advanced University Physics

2018-10-03

Subject Guide to Books in Print

1983

Nuclear Magnetic Resonance

2004

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