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Problems and Solutions in Medical Physics

2022-10-17

the third in a three volume set exploring problems and solutions in medical physics this volume explores common questions and their solutions in radiotherapy this invaluable study guide should be used in conjunction with other key textbooks in the field to provide additional learning opportunities one hundred and forty four solved problems are provided in ten chapters on basic physics topics including external beam therapy equipment photon beam physics radiation dosimetry treatment planning for external beam radiotherapy and external beam commissioning and quality assurance each chapter provides examples notes and references for further reading to enhance understanding key features consolidates concepts and assists in the understanding and applications of theoretical concepts in medical physics assists lecturers and instructors in setting assignments and tests suitable as a revision tool for postgraduate students sitting medical physics oncology and radiology science examinations

Indian Journal of Theoretical Physics

1994

in the last 20 years the disciplines of particle physics astrophysics nuclear physics and cosmology have grown together in an unprecedented way a brilliant example is nuclear double beta decay an extremely rare radioactive decay mode which is one of the most exciting and important fields of research in particle physics at present and the flagship of non accelerator particle physics while already discussed in the 1930s only in the 1980s was it understood that neutrinoless double beta decay can yield information on the majorana mass of the neutrino which has an impact on the structure of space time today double beta decay is indispensable for solving the problem of the neutrino mass spectrum and the structure of the neutrino mass matrix the potential of double beta decay has also been extended such that it is now one of the most promising tools for probing beyond the standard model particle physics and gives access to energy scales beyond the potential of future accelerators this book presents the breathtaking manner in which achievements in particle physics have been made from a nuclear physics process consisting of a 150 page highly factual overview of the field of double beta decay and a 1200 page collection of the most important original articles the book outlines the development of double beta decay research theoretical and experimental from its humble beginnings until its most recent achievements with its revolutionary consequences for the theory of particle physics it further presents an outlook on the exciting future of the field

Catalog of Copyright Entries. Third Series

1974

this book constitutes the refereed proceedings of the 8th mexican international conference on artificial intelligence micai 2009 held in guanajuato mexico in november 2009 the 63 revised full papers presented together with one invited talk were carefully reviewed and selected from 215

submissions the papers are organized in topical sections on logic and reasoning ontologies knowledge management and knowledge based systems uncertainty and probabilistic reasoning natural language processing data mining machine learning pattern recognition computer vision and image processing robotics planning and scheduling fuzzy logic neural networks intelligent tutoring systems bioinformatics and medical applications hybrid intelligent systems and evolutionary algorithms

Seventy Years Of Double Beta Decay: From Nuclear Physics To Beyond-standard-model Particle Physics

2010-03-25

this volume of proceedings deals with a wide variety of topics oco both in theory and in experiment oco in particle physics such as electroweak theory tests of the standard model and beyond heavy quark physics nonperturbative qcd neutrino physics astroparticle physics quantum gravity effects and physics at the future accelerators

MICAI 2009: Advances in Artificial Intelligence

2009-10-26

this volume of proceedings deals with a wide variety of topics both in theory and in experiment in particle physics such as electroweak theory tests of the standard model and beyond heavy quark physics nonperturbative qcd neutrino physics astroparticle physics quantum gravity effects and physics at the future accelerators contents neutrino physics and astrophysicscp violation and rare decays hadron physics physics at accelerators and studies in sm and beyond gravitation and cosmology new developments in quantum field theory problems of intelligence a readership graduate students and researchers in high energy physics keywords high energy physics particle physics

Frontiers of Particle Physics

2003

the internet of things describes a world in which smart technologies enable objects with a network to communicate with each other and interface with humans effortlessly this connected world of convenience and technology does not come without its drawbacks as interconnectivity implies hackability security solutions for hyperconnectivity and the internet of things offers insights from cutting edge research about the strategies and techniques that can be implemented to protect against cyber attacks calling for revolutionary protection strategies to reassess security this book is an essential resource for programmers engineers business professionals researchers and advanced students in relevant fields

Frontiers of Particle Physics

2003-02-28

this book arms engineers with the tools to apply key physics concepts in the field a number of the key figures in the new edition are revised to provide a more inviting and informative treatment the figures are broken into component parts with supporting commentary so that they can more readily see the key ideas material from the flying circus is incorporated into the chapter opener puzzlers sample problems examples and end of chapter problems to make the subject more engaging checkpoints enable them to check their understanding of a question with some reasoning based on the narrative or sample problem they just read sample problems also demonstrate how engineers can solve problems with reasoned solutions

Security Solutions for Hyperconnectivity and the Internet of Things

2016-08-30

this book constitutes the refereed proceedings of the 21st international triz future conference on automated invention for smart industries tfc 2021 held virtually in september 2021 and sponsored by ifip wg 5.4 the 28 full papers and 8 short papers presented were carefully reviewed and selected from 48 submissions they are organized in the following thematic sections inventiveness and triz for sustainable development triz intellectual property and smart technologies triz expansion in breadth and depth triz data processing and artificial intelligence and triz use and divulgation for engineering design and beyond chapter domain analysis with triz to define an effective design for excellence is available open access under a creative commons attribution 4.0 international license via link.springer.com

Fundamentals of Physics Extended

2010-03-08

a practical in depth description of the physics behind electron emission physics and its usage in science and technology electron emission is both a fundamental phenomenon and an enabling component that lies at the very heart of modern science and technology written by a recognized authority in the field with expertise in both electron emission physics and electron beam physics an introduction to electron emission provides an in depth look at the physics behind thermal field photo and secondary electron emission mechanisms how that physics affects the beams that result through space charge and emittance growth and explores the physics behind their utilization in an array of applications the book addresses mathematical and numerical methods underlying electron emission describing where the equations originated how they are related and how they may be correctly used to model actual sources for devices using electron beams writing for the beam physics and solid state communities the author explores applications of electron emission methodology to solid state statistical and quantum mechanical ideas and concepts related to simulations of electron beams to condensed matter solid state and fabrication communities provides an extensive description of the physics behind four electron emission mechanisms

field photo and secondary and how that physics relates to factors such as space charge and emittance that affect electron beams introduces readers to mathematical and numerical methods their origins and how they may be correctly used to model actual sources for devices using electron beams demonstrates applications of electron methodology as well as quantum mechanical concepts related to simulations of electron beams to solid state design and manufacture designed to function as both a graduate level text and a reference for research professionals introduction to the physics of electron emission is a valuable learning tool for postgraduates studying quantum mechanics statistical mechanics solid state physics electron transport and beam physics it is also an indispensable resource for academic researchers and professionals who use electron sources model electron emission develop cathode technologies or utilize electron beams

Fundamentals of Physics, Chapters 33-37

2010-03

integrated green energy solutions this second volume in a two volume set continues to present the state of the art for the concepts practical applications and future of renewable energy and how to move closer to true sustainability renewable energy supplies are of ever increasing environmental and economic importance in every country in the world a wide range of renewable energy technologies has been established commercially and recognized as an important set of growth industries for most governments world agencies such as the united nations have extensive programs to encourage these emerging technologies this book will bridge the gap between descriptive reviews and specialized engineering technologies it centers on demonstrating how fundamental physical processes govern renewable energy resources and their applications although the applications are being updated continually the fundamental principles remain the same and this book will provide a useful platform for those advancing the subject and its industries integrated resilient energy solutions is a two volume set covering subjects of proven technical and economic importance worldwide energy supply from renewables is an essential component of every nation s strategy especially when there is responsibility for the environment and sustainability these two volumes will consider the timeless renewable energy technologies principles yet demonstrate modern applications and case studies whether for the veteran engineer student or other professional these two volumes are a must have for any library

Creative Solutions for a Sustainable Development

2021-09-15

thearti ciallifetermappearedmorethan20yearsago inasmallcornerofnew mexico usa since then the area has developed dramatically many researchers joining enthusiastically and research groups sprouting everywhere this frenetic activity led to the emergence of several strands that are now established elds in themselves we are now reaching a stage that one may describe as maturer with more rigour more benchmarks more results more stringent acceptance criteria more applications in brief more sound science this which is the n ural path of all new areas comes at a price however a certain enthusiasm a certain adventurousness from the early years is fading and may have been lost on the way the eld has become more reasonable to counterbalance this and to encourage lively discussions a conceptual track where papers were judged on criteria like importance and or novelty of

the concepts proposed rather than the experimental theoretical results has been introduced this year a conference on a theme as broad as artificial life is bound to be very diverse but a few tendencies emerged first fields like robotics and autonomous agents or evolutionary computation are still extremely active and keep on bringing a wealth of results to the artificial life community even there however new tendencies appear like collective robotics and more specifically self-assembling robotics which represent now a large subsection second new areas appear

Machine Learning for Cyber Security

2017-11-29

in an era dominated by electronic devices and interconnected technologies the weak point of this technology remains the limited lifespan and lengthy maintenance of conventional batteries the pervasive use of wireless sensor networks and internet of things iot applications has accentuated the inadequacies of battery technology which has not kept pace with the miniaturization of electronic devices frequent battery replacements for remote devices have become a critical bottleneck hindering the seamless operation of devices that play a pivotal role in various industries addressing this universal challenge head on emerging materials technologies and solutions for energy harvesting emerges as a tool for innovation and sustainability this book explores energy harvesting a paradigm shift that transforms ambient energy sources such as thermal gradients solar energy radio frequency and vibration energy into a viable and enduring power solution by presenting innovative materials technologies and solutions the book is the key to unlocking a future where devices can thrive on efficient cost effective and compact energy harvesting systems eliminating frequent battery replacements

Introduction to the Physics of Electron Emission

2023-06-20

islamic finance is a growing part of the global financial sector the risks faced by islamic banks are real and how well they mitigate them will determine their future this book answers questions regarding how islamic financial institutions should focus on their risk management practices and the necessary solutions and policy implementation tactics it also analyses the risk mitigation techniques islamic institutions are putting to use looking at different islamic banks from across the world to investigate their strategies and solutions among the topics discussed here are the implementation and outcomes of basel iii practical enterprise risk management practices liquidity risk management and the success story of the global takaful industry

Integrated Green Energy Solutions, Volume 2

2016

contains papers on relevant technological applications of logical methods and some of their extensions and gives an idea of some applications of

logical methods to numerous problems including relevant concepts and results in particular those related to paraconsistent logic

Canadian Journal of Physics

1992

the record of each copyright registration listed in the catalog includes a description of the work copyrighted and data relating to the copyright claim the name of the copyright claimant as given in the application for registration the copyright date the copyright registration number etc

General physics, relativity, astronomy and plasmas

2005-08-29

in the last 20 years the disciplines of particle physics astrophysics nuclear physics and cosmology have grown together in an unprecedented way a brilliant example is nuclear double beta decay an extremely rare radioactive decay mode which is one of the most exciting and important fields of research in particle physics at present and the flagship of non accelerator particle physics while already discussed in the 1930s only in the 1980s was it understood that neutrinoless double beta decay can yield information on the majorana mass of the neutrino which has an impact on the structure of space time today double beta decay is indispensable for solving the problem of the neutrino mass spectrum and the structure of the neutrino mass matrix the potential of double beta decay has also been extended such that it is now one of the most promising tools for probing beyond the standard model particle physics and gives access to energy scales beyond the potential of future accelerators this book presents the breathtaking manner in which achievements in particle physics have been made from a nuclear physics process consisting of a 150 page highly factual overview of the field of double beta decay and a 1200 page collection of the most important original articles the book outlines the development of double beta decay research theoretical and experimental from its humble beginnings until its most recent achievements with its revolutionary consequences for the theory of particle physics it further presents an outlook on the exciting future of the field

Advances in Artificial Life

2024-03-04

interdisciplinary thinking for schools ethical dilemmas myp 1 2 3 is not your average textbook resource innovative ethical design projects illustrated with spectacular artwork will connect students to exciting and purposeful learning rich primary research includes interviews with the following visionaries alberto alessi astronomer royal martin rees dr jane goodall jared della valle and the stephanie alexander kitchen garden foundation the interdisciplinary units have been written with a focus on creativity critical thinking and exploration of embedded ethical dilemmas our strategies support the growth of an innovative and student centered curriculum to generate real world sustainable solutions to problems in keeping with the ib

myp philosophy

Emerging Materials, Technologies, and Solutions for Energy Harvesting

2019-01-18

the updated new edition of the classic and comprehensive guide to the history of mathematics for more than forty years a history of mathematics has been the reference of choice for those looking to learn about the fascinating history of humankind's relationship with numbers shapes and patterns this revised edition features up to date coverage of topics such as fermat's last theorem and the poincaré conjecture in addition to recent advances in areas such as finite group theory and computer aided proofs distills thousands of years of mathematics into a single approachable volume covers mathematical discoveries concepts and thinkers from ancient egypt to the present includes up to date references and an extensive chronological table of mathematical and general historical developments whether you're interested in the age of plato and aristotle or poincaré and hilbert whether you want to know more about the pythagorean theorem or the golden mean a history of mathematics is an essential reference that will help you explore the incredible history of mathematics and the men and women who created it

Risk Management Implementation and Solutions for Islamic Banking and Finance

2023-06-27

the climate change crisis presents a multi dimensional challenge to the development of the built environment with finite global resources and increasingly unpredictable climate patterns the need to improve our understanding of sustainable practices and materials for construction has never been more pressing the handbook of research on corrosion sciences and engineering aims to shed light on the recent developments in the usage of sustainable materials to protect metallic materials against corrosion and provides emerging research exploring the theoretical and practical aspects of corrosion engineering science and technology covering key topics such as machine learning smart coating sustainability and artificial intelligence this major reference work is ideal for construction workers industry professionals researchers academicians scholars practitioners instructors and students

Advances in data-driven approaches and modeling of complex systems

2002

this book highlights the latest advances and outlines future trends in aqueous solvation studies from the perspective of hydrogen bond transition by charge injection which reconciles the solvation dynamics molecular nonbond interactions and the extraordinary functionalities of various solutes on the solution bond network and properties focus is given on ionic and dipolar electrostatic polarization o-h nonbond interaction anti-hb and super-hb repulsion and solute-solute interactions its target audience includes researchers scientists and engineers in chemistry physics surface and interface

science materials science and engineering

Nuclear Physics

2009

this collection covers a variety of materials science topics and has contributions from leading scientists and engineers representing 8 countries and 9 international materials metals and minerals societies papers are organized into the following sections advanced biomaterials advanced manufacturing materials for green energy materials for infrastructure materials for the oil and gas industry materials for transportation and lightweighting minerals extraction and processing nanocrystalline and ultra fine grain materials and bulk metallic glasses steels

Advances in Technological Applications of Logical and Intelligent Systems

1921

optimal design optimal control and parameter estimation of systems governed by partial differential equations pdes give rise to a class of problems known as pde constrained optimization the size and complexity of the discretized pdes often pose significant challenges for contemporary optimization methods with the maturing of technology for pde simulation interest has now increased in pde based optimization the chapters in this volume collectively assess the state of the art in pde constrained optimization identify challenges to optimization presented by modern highly parallel pde simulation codes and discuss promising algorithmic and software approaches for addressing them these contributions represent current research of two strong scientific computing communities in optimization and pde simulation this volume merges perspectives in these two different areas and identifies interesting open questions for further research

□□□□□□

1972

parallel computing has been the enabling technology of high end machines for many years now it has finally become the ubiquitous key to the efficient use of any kind of multi processor computer architecture from smart phones tablets embedded systems and cloud computing up to exascale computers x000d this book presents the proceedings of parco2013 the latest edition of the biennial international conference on parallel computing held from 10 to 13 september 2013 in garching germany the conference focused on several key parallel computing areas themes included parallel programming models for multi and manycore cpus gpus fpgas and heterogeneous platforms the performance engineering processes that must be adapted to efficiently use these new and innovative platforms novel numerical algorithms and approaches to large scale simulations of problems in science and engineering x000d the conference programme also included twelve mini symposia including an industry session and a special phd

symposium which comprehensively represented and intensified the discussion of current hot topics in high performance and parallel computing these special sessions covered large scale supercomputing novel challenges arising from parallel architectures multi manycore heterogeneous platforms fpgas multi level algorithms as well as multi scale multi physics and multi dimensional problems x000d it is clear that parallel computing including the processing of large data sets big data will remain a persistent driver of research in all fields of innovative computing which makes this book relevant to all those with an interest in this field

Catalog of Copyright Entries, Third Series

1974

the book contains proceedings of the xv international scientific conference interagromash 2022 rostov on don russia this conference is dedicated to the innovations in the field of precision agriculture robotics and machines as well as agriculture biotechnologies and soil management it is a collection of original and fundamental research in such areas as follows unmanned aerial systems satellite based applications proximal and remote sensing of soil and crop positioning systems geostatistics mapping and spatial data analysis robotics and automation potential and prospects for the use of hydrogen in agriculture for example in high performance tractors with hybrid electric transmission are disclosed in the research works of scientists from all over the world it also includes such topics as precision horticulture precision crop protection differential harvest precision livestock farming controlling environment in animal husbandry and other topics one of the important issues raised in the book is to ensure the autonomy of local farms the topic of the impact of the agro industrial sector on the environment also received wide coverage ways to reduce the burden on the environment are proposed and the use of alternative fuels and fertilizers is suggested the research results presented in this book cover the experience and the latest studies on the sustainable functioning of agribusiness in several climatic zones the tundra and taiga forest steppe the steppe and semi desert all this is a unique and incredibly demanded bank of information the main value of which is the real experience of the functioning of agribusiness in difficult climatic and geographic conditions these materials are of interest for professionals and practitioners for researchers scholars and producers they are used in the educational process at specific agricultural universities or during vocational training at enterprises and also become an indispensable helper to farm managers in making the best agronomic decisions

Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office

2010

this multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications this seventh volume collects authoritative chapters covering several applications of fractional calculus in in engineering life and social sciences

including applications in biology and medicine mechanics of complex media economy and electrical devices

Seventy Years of Double Beta Decay

2020-09-28

Interdisciplinary Thinking for Schools: Ethical Dilemmas MYP 1, 2 & 3

1983

The Journal of Physics and Chemistry of Solids

1980

Indo-iranica

2011-01-11

A History of Mathematics

1968

Problems & Solutions in Euclidean Geometry

2023-05-09

Handbook of Research on Corrosion Sciences and Engineering

2019-07-03

Solvation Dynamics

2015-06-19

Organic Semiconductor Lasers and Tailored Nanostructures for Raman Spectroscopy

2017-02-07

Proceedings of the 3rd Pan American Materials Congress

2012-12-06

Large-Scale PDE-Constrained Optimization

2014-03-31

Parallel Computing: Accelerating Computational Science and Engineering (CSE)

1994

Journal of Solution Chemistry

2023-02-24

XV International Scientific Conference “INTERAGROMASH 2022”

2019-04-01

Applications in Engineering, Life and Social Sciences

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