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New Results and Actual Problems in Particle & Astroparticle Physics and Cosmology - R Ryutin 2014-03-04

This unique volume contains the materials of the XXIXth International Workshop on High Energy Physics. The content of the volume is much wider than just high-energy physics and actually concerns all the most fundamental areas of modern physics research: high-energy physics

proper, gravitation and cosmology. Presentations embrace both theory and experiment. Contents:12 Closed Doors and 8 Open Windows in Physics Beyond the SM (F Riva)On Possible Interpretation of the LHC Higgs-Like State in the Framework of the Non-Perturbative Effective Interaction of W-Bosons (B A Arbuzov)What Can the Higgs Tell Us About UV Physics? (A K Knochel)Recent Results from

the Heavy Ion Program at RHIC (O
Evdokimov)Top Quark Physics Results from LHC
(C Ferro)Neutrino Oscillations: Recent Results
and Perspectives (M M Khabibullin and Yu G
Kudenko)High-Energy Collisions in Space-Time
Perspective (V A Petrov)Inward Horizons of the
Spinning Nucleons (A Prokudin)Supermassive
Black Hole at the Galactic Center (A F
Zakharov)Einsteinian Revolution's
Misinterpretation: No True Black Holes, No
Information Paradox: Just Quasi-Static Balls of
Quark Gluon Plasma (A Mitra)Flaws in Black
Hole Theory and General Relativity (S J
Crothers)and other papers Readership:
Advanced undergraduates and graduate
students, and physicists working in the field of
high energy physics. Keywords:Higgs
Boson;Quark Gluon Plasma;Neutrino in Labs and
Cosmos;Cosmology;Dark Matter

Antifragile - Nassim Nicholas Taleb 2014-01-28

Antifragile is a standalone book in Nassim
Nicholas Taleb's landmark Incerto series, an

investigation of opacity, luck, uncertainty,
probability, human error, risk, and decision-
making in a world we don't understand. The
other books in the series are Fooled by
Randomness, The Black Swan, Skin in the Game,
and The Bed of Procrustes. Nassim Nicholas
Taleb, the bestselling author of The Black Swan
and one of the foremost thinkers of our time,
reveals how to thrive in an uncertain world. Just
as human bones get stronger when subjected to
stress and tension, and rumors or riots intensify
when someone tries to repress them, many
things in life benefit from stress, disorder,
volatility, and turmoil. What Taleb has identified
and calls "antifragile" is that category of things
that not only gain from chaos but need it in
order to survive and flourish. In The Black Swan,
Taleb showed us that highly improbable and
unpredictable events underlie almost everything
about our world. In Antifragile, Taleb stands
uncertainty on its head, making it desirable,
even necessary, and proposes that things be

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built in an antifragile manner. The antifragile is beyond the resilient or robust. The resilient resists shocks and stays the same; the antifragile gets better and better. Furthermore, the antifragile is immune to prediction errors and protected from adverse events. Why is the city-state better than the nation-state, why is debt bad for you, and why is what we call “efficient” not efficient at all? Why do government responses and social policies protect the strong and hurt the weak? Why should you write your resignation letter before even starting on the job? How did the sinking of the Titanic save lives? The book spans innovation by trial and error, life decisions, politics, urban planning, war, personal finance, economic systems, and medicine. And throughout, in addition to the street wisdom of Fat Tony of Brooklyn, the voices and recipes of ancient wisdom, from Roman, Greek, Semitic, and medieval sources, are loud and clear. Antifragile is a blueprint for living in a Black Swan world. Erudite, witty, and

iconoclastic, Taleb’s message is revolutionary: The antifragile, and only the antifragile, will make it. Praise for Antifragile “Ambitious and thought-provoking . . . highly entertaining.”—The Economist “A bold book explaining how and why we should embrace uncertainty, randomness, and error . . . It may just change our lives.”—Newsweek
The Athenaeum - 1882

Energy Research Abstracts - 1989

Solution Models Based on Symmetric and Asymmetric Information - Edmundas Kazimieras Zavadskas

This Special Issue covers symmetry and asymmetry phenomena occurring in real-life problems. We invited authors to submit their theoretical or experimental research presenting engineering and economic problem solution models dealing with the symmetry or asymmetry of different types of information. The issue gained

interest in the research community and received many submissions. After rigorous scientific evaluation by editors and reviewers, nine papers were accepted and published. The authors proposed different solution models as integrated tools to find a balance between the components of sustainable global development, i.e., to find a symmetry axis concerning goals, risks, and constraints to cope with the complicated problems. We hope that a summary of the Special Issue as provided in this editorial will encourage a detailed analysis of the papers.

Optimum Cooling of Data Centers - Jun Dai
2013-11-20

This book describes the use of free air cooling to improve the efficiency of, and cooling of, equipment for use in telecom infrastructures. Discussed at length is the cooling of communication installation rooms such as data centers or base stations, and this is intended as a valuable tool for the people designing and manufacturing key parts of communication

networks. This book provides an introduction to current cooling methods used for energy reduction, and also compares present cooling methods in use in the field. The qualification methods and standard reliability assessments are reviewed, and their inability to assess the risks of free air cooling is discussed. The method of identifying the risks associated with free air cooling on equipment performance and reliability is introduced. A novel method of assessment for free air cooling is also proposed that utilizes prognostics and health management (PHM). This book also: Describes how the implementation of free air cooling can save energy for cooling within the telecommunications infrastructure. Analyzes the potential risks and failures of mechanisms possible in the implementation of free air cooling, which benefits manufacturers and equipment designers. Presents prognostics-based assessments to identify and mitigate the risks of telecommunications equipment under

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free air cooling conditions, which can provide the early warning of equipment failures at operation stage without disturbing the data centers' service. Optimum Cooling for Data Centers is an ideal book for researchers and engineers interested in designing and manufacturing equipment for use in telecom infrastructures.

Understanding Stellar Evolution - Henny J. G. L. M. Lamers 2018-02-28

'Understanding Stellar Evolution' is based on a series of graduate-level courses taught at the University of Washington since 2004, and is written for physics and astronomy students and for anyone with a physics background who is interested in stars. It describes the structure and evolution of stars, with emphasis on the basic physical principles and the interplay between the different processes inside stars such as nuclear reactions, energy transport, chemical mixing, pulsation, mass loss, and rotation. Based on these principles, the evolution of low- and

high-mass stars is explained from their formation to their death. In addition to homework exercises for each chapter, the text contains a large number of questions that are meant to stimulate the understanding of the physical principles. An extensive set of accompanying lecture slides is available for teachers in both Keynote(R) and PowerPoint(R) formats.

Nanosensors for Smart Manufacturing - Sabu Thomas 2021-06-10

Nanosensors for Smart Manufacturing provides information on the fundamental design concepts and emerging applications of nanosensors in smart manufacturing processes. In smart production, if the products and machines are integrated, embedded, or equipped with sensors, the system can immediately collect the current operating parameters, predict the product quality, and then feed back the optimal parameters to machines in the production line. In this regard, smart sensors and their wireless

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networks are important components of smart manufacturing. Nanomaterials-based sensors (nanosensors) offer several advantages over their microscale counterparts, including lower power consumption, fast response time, high sensitivity, lower concentration of analytes, and smaller interaction distance between sensors and products. With the support of artificial intelligence (AI) tools such as fuzzy logic, genetic algorithms, neural networks, and ambient intelligence, sensor systems have become smarter. This is an important reference source for materials scientists and engineers who want to learn more about how nanoscale sensors can enhance smart manufacturing techniques and processes. Outlines the smart nanosensor classes used in manufacturing applications Shows how nanosensors are being used to make more efficient manufacturing systems Assesses the major obstacles to designing nanosensor-based manufacturing systems at an industrial scale

Southern Economist - 2006

Yearbook of International Organizations - 2001
Beginning in 1983/84 published in 3 vols., with expansion to 6 vols. by 2007/2008: vol. 1-- Organization descriptions and cross references; vol. 2--Geographic volume: international organization participation; vol. 3--Subject volume; vol. 4--Bibliography and resources; vol. 5--Statistics, visualizations and patterns; vol. 6--Who's who in international organizations. (From year to year some slight variations in naming of the volumes).

Department of Defense Dictionary of Military and Associated Terms - United States. Joint Chiefs of Staff 1994

Introduction to Polymer Physics - Masao Doi 1996

This book is a concise and clearly written introduction to the modern theory of polymer physics. The book describes basic concepts and

methods of investigating the statistical properties of the assembly of chain-like molecules. The topics discussed include scaling theory, concentration fluctuation, gels, and reptation. Both graduate students and researchers in physics, physical chemistry, chemical engineering, and materials science will find this an extremely useful textbook and reference work.

The Case for Space - Robert Zubrin 2019

"A new space race has begun. But the rivals in this case are not superpowers but competing entrepreneurs. These daring pioneers are creating a revolution in spaceflight that promises to transform the near future. Astronautical engineer Robert Zubrin spells out the potential of these new developments in an engrossing narrative that is visionary yet grounded by a deep understanding of the practical challenges. Fueled by the combined expertise of the old aerospace industry and the talents of Silicon Valley entrepreneurs,

spaceflight is becoming cheaper. The new generation of space explorers has already achieved a major breakthrough by creating reusable rockets. Zubrin foresees more rapid innovation, including global travel from any point on Earth to another in an hour or less; orbital hotels; moon bases with incredible space observatories; human settlements on Mars, the asteroids, and the moons of the outer planets; and then, breaking all limits, pushing onward to the stars."--Publisher's website.

Engineering for Sustainable Development - International Centre for Engineering Education 2021-03-02

The report highlights the crucial role of engineering in achieving each of the 17 SDGs. It shows how equal opportunities for all is key to ensuring an inclusive and gender balanced profession that can better respond to the shortage of engineers for implementing the SDGs. It provides a snapshot of the engineering innovations that are shaping our world,

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especially emerging technologies such as big data and AI, which are crucial for addressing the pressing challenges facing humankind and the planet. It analyses the transformation of engineering education and capacity-building at the dawn of the Fourth Industrial Revolution that will enable engineers to tackle the challenges ahead. It highlights the global effort needed to address the specific regional disparities, while summarizing the trends of engineering across the different regions of the world.

Considerations of the Motion of a Small Body in the Vicinity of the Stable Libration Points of the Earth-moon System - 1963

Medical Dosage Calculations - June L. Olsen
Emeritus, RN, MS 2011-11-21

For courses in medical dosage calculation in departments of nursing, pharmacy, pre-med, pre-dental, and other health disciplines; and for courses covering dosage calculation in other

programs, such as pharmacology, pediatrics and critical care. The complete and user-friendly guide to safe drug dosage calculation Fully revised for current practices and medication, *Medical Dosage Calculations* remains the field's most complete, user-friendly and accessible drug calculation text and workbook. Using the dimensional analysis format it pioneered, students begin with simple arithmetic, progressing to the most complex drug calculations. As they develop mathematical skills for accurate dosage calculations, they also gain a thorough professional understanding of safe drug administration. Compared with competitors, our text contains deeper, more realistic problems, incorporating actual dosages and requiring real critical thinking.

How I Taught My Grandmother to Read and other Stories - Sudha Murty 2015-02-06

These are just some of the questions you will find answered in this delightful collection of stories recounting real-life incidents from the life

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of Sudha Murty-teacher, social worker and bestselling writer. There is the engaging story about one of her students who frequently played truant from school. The account of how her mother's advice to save money came in handy when she wanted to help her husband start a software company, and the heart-warming tale of the promise she made-and fulfilled to her grandfather, to ensure that her little village library would always be well supplied with books. Funny, spirited and inspiring, each of these stories teaches a valuable lesson about the importance of doing what you believe is right and having the courage to realize your dreams. *General Catalogue of Printed Books* - British Museum. Dept. of Printed Books 1969

Micronic Integrated Sensors - J.L. Robert
1992-10-09

Progress in material research, recent developments in growth techniques, as well as in processing technology and modelling, have had

a great impact on sensors. The contributions in this volume will be of interest to all those who wish to keep abreast of recent developments in the interdisciplinary field of sensor research. *Government Reports Announcements & Index* - 1994-06

Microwave Devices, Circuits and Subsystems for Communications Engineering - Ian A. Glover
2006-05-01

Microwave Devices, Circuits and Subsystems for Communications Engineering provides a detailed treatment of the common microwave elements found in modern microwave communications systems. The treatment is thorough without being unnecessarily mathematical. The emphasis is on acquiring a conceptual understanding of the techniques and technologies discussed and the practical design criteria required to apply these in real engineering situations. Key topics addressed include: Microwave diode and transistor

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equivalent circuits Microwave transmission line technologies and microstrip design Network methods and s-parameter measurements Smith chart and related design techniques Broadband and low-noise amplifier design Mixer theory and design Microwave filter design Oscillators, synthesisers and phase locked loops Each chapter is written by specialists in their field and the whole is edited by experience authors whose expertise spans the fields of communications systems engineering and microwave circuit design. Microwave Devices, Circuits and Subsystems for Communications Engineering is suitable for senior electrical, electronic or telecommunications engineering undergraduate students, first year postgraduate students and experienced engineers seeking a conversion or refresher text. Includes a companion website featuring: Solutions to selected problems Electronic versions of the figures Sample chapter

Nuclear Science Abstracts - 1972-10

The Chemistry of the Actinide and Transactinide Elements (3rd ed., Volumes 1-5) - L.R. Morss 2007-12-31

The Chemistry of the Actinide and Transactinide Elements is a contemporary and definitive compilation of chemical properties of all of the actinide elements, especially of the technologically important elements uranium and plutonium, as well as the transactinide elements. In addition to the comprehensive treatment of the chemical properties of each element, ion, and compound from atomic number 89 (actinium) through to 109 (meitnerium), this multi-volume work has specialized and definitive chapters on electronic theory, optical and laser fluorescence spectroscopy, X-ray absorption spectroscopy, organoactinide chemistry, thermodynamics, magnetic properties, the metals, coordination chemistry, separations, and trace analysis. Several chapters deal with environmental science, safe handling, and biological interactions of the actinide elements.

The Editors invited teams of authors, who are active practitioners and recognized experts in their specialty, to write each chapter and have endeavoured to provide a balanced and insightful treatment of these fascinating elements at the frontier of the periodic table. Because the field has expanded with new spectroscopic techniques and environmental focus, the work encompasses five volumes, each of which groups chapters on related topics. All chapters represent the current state of research in the chemistry of these elements and related fields.

Lasers - K. Thyagarajan 2010-09-27

Ever since their invention in 1960, lasers have assumed tremendous importance in the fields of science, engineering and technology because of their use both in basic research and in various technological applications. Lasers: Theory and Applications 2nd Edition will provide a coherent presentation of the basic physics behind the working of the laser along with some of their

most important applications. Numerical examples are scattered throughout the book for helping the student gain a better appreciation of the concepts and problems at the end of each chapter and provides the student a better understanding of the basics and help in applying the concepts to practical situations. This book serves as a text in a course on lasers and their applications for students majoring in various disciplines such as Physics, Chemistry and Electrical Engineering.

Classical Mechanics - John Robert Taylor
2004-05

TV artist and teacher Hazel Soan is well known for her watercolours of Africa. This illustrated guide is both a safari through her beloved southern Africa and an instructional journey through a range of subjects, showing different ways to see and paint them. Aimed at the more practised painter, this is a useful book for the reader looking to add adventure to their painting. Focusing on the popular medium of

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watercolour, Hazel travels through South Africa, Namibia, Botswana and Zimbabwe, getting to know her destinations by painting them. As the journey unfolds, she presents a series of painting projects.

Learn Python 3 the Hard Way - Zed A. Shaw
2017-06-26

You Will Learn Python 3! Zed Shaw has perfected the world's best system for learning Python 3. Follow it and you will succeed—just like the millions of beginners Zed has taught to date! You bring the discipline, commitment, and persistence; the author supplies everything else. In *Learn Python 3 the Hard Way*, you'll learn Python by working through 52 brilliantly crafted exercises. Read them. Type their code precisely. (No copying and pasting!) Fix your mistakes. Watch the programs run. As you do, you'll learn how a computer works; what good programs look like; and how to read, write, and think about code. Zed then teaches you even more in 5+ hours of video where he shows you how to

break, fix, and debug your code—live, as he's doing the exercises. Install a complete Python environment Organize and write code Fix and break code Basic mathematics Variables Strings and text Interact with users Work with files Looping and logic Data structures using lists and dictionaries Program design Object-oriented programming Inheritance and composition Modules, classes, and objects Python packaging Automated testing Basic game development Basic web development It'll be hard at first. But soon, you'll just get it—and that will feel great! This course will reward you for every minute you put into it. Soon, you'll know one of the world's most powerful, popular programming languages. You'll be a Python programmer. This Book Is Perfect For Total beginners with zero programming experience Junior developers who know one or two languages Returning professionals who haven't written code in years Seasoned professionals looking for a fast, simple, crash course in Python 3

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Saturn Run - John Sandford 2017-02-07

Fans of *The Martian* will enjoy this extraordinary new thriller of the future from #1 New York Times bestselling and Pulitzer Prize-winning author John Sandford and internationally known photo-artist and science fiction aficionado Ctein. In 2066, a Caltech intern notices an anomaly from a space telescope—something is approaching Saturn, and decelerating. Space objects don't decelerate. Spaceships do... A flurry of top-level government meetings produce the inescapable conclusion: Whatever built the ship is at least one hundred years ahead of our technology, and whoever can get their hands on it will have an advantage so large, no other nation can compete. The race is on, and a remarkable adventure begins. Soon a hastily thrown-together crew finds its strength and wits tested against adversaries of this earth and beyond. So buckle up, because two perfectly matched storytellers are about to take you for a ride...

Life After Life - Kate Atkinson 2013-04-02

What if you could live again and again, until you got it right? On a cold and snowy night in 1910, Ursula Todd is born to an English banker and his wife. She dies before she can draw her first breath. On that same cold and snowy night, Ursula Todd is born, lets out a lusty wail, and embarks upon a life that will be, to say the least, unusual. For as she grows, she also dies, repeatedly, in a variety of ways, while the young century marches on towards its second cataclysmic world war. Does Ursula's apparently infinite number of lives give her the power to save the world from its inevitable destiny? And if she can -- will she? Darkly comic, startlingly poignant, and utterly original -- this is Kate Atkinson at her absolute best.

Semiconductor Physics and Devices - Donald A. Neamen 2003

This text aims to provide the fundamentals necessary to understand semiconductor device characteristics, operations and limitations.

Quantum mechanics and quantum theory are explored, and this background helps give students a deeper understanding of the essentials of physics and semiconductors.

A Framework for K-12 Science Education -

National Research Council 2012-02-28

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S.

competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in

science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their

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choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

American Men and Women of Science - 1977

Acronyms Abbreviations & Terms - A Capability Assurance Job Aid - 2005

The FAAT List is not designed to be an authoritative source, merely a handy reference. Inclusion recognizes terminology existence, not legitimacy. Entries known to be obsolete are included because they may still appear in extant publications and correspondence.

Japanese Journal of Applied Physics - 2006

Physics Briefs - 1991

Biophysical Techniques for Structural Characterization of Macromolecules - Edward H. Egelman 2012

Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971 - New York Public Library. Research Libraries 1979

Index and Bibliography of Mass Spectrometry 1963-1965 - Fred W. McLafferty 1967

Technical Abstract Bulletin - 1980

Environmental Aspects of the Transuranics - F. M. Martin 1975

Scientific and Technical Aerospace Reports - 1988

Lists citations with abstracts for aerospace
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related reports obtained from world wide sources and announces documents that have

recently been entered into the NASA Scientific and Technical Information Database.