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Information Assurance and Security Education and Training
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Soviet Journal of Plasma Physics

Magdolna Hargittai uses over fifteen years of in-depth conversation with female physicists, chemists, biomedical researchers, and other scientists to form cohesive ideas on the state of the modern female scientist. The compilation, based on sixty conversations, examines unique challenges that women with serious scientific aspirations face. In addition to addressing challenges and the unjustifiable underrepresentation of women at the higher levels of academia, Hargittai takes a balanced approach by discussing how some of the most successful of these women have managed to obtain professional success and personal happiness. *Women Scientists* portrays scientists from different backgrounds, different geographical regions-eighteen countries from four continents-and leaders from a variety of professional backgrounds, including eight Nobel laureate women. The book is divided into three sections: "Husband and Wife Teams," "Women at the Top," and "In High Positions." Hargittai uses her own experience to introduce her first section on the lives of prominent scientific couples and addresses the joys and disadvantages of husband and wife teams. The second section is a comprehensive exploration of the struggles and triumphs of "women at the top." Hargittai introduces women from countries where relatively little has been written about female scientists. The final section focuses on women scientists involved with science administration and leadership. Hargittai's biographical sketches role models for budding scientists. The book is a much needed account of

female presence and influence in the sciences.

Catalog of the United States Geological Survey Library

Supercomputing

This volume contains write-ups for the lectures at TASI 2011, held in Boulder Colorado, June 2011. They cover topics in theoretical particle physics including the Standard Model and beyond, dark matter, collider physics, and cosmology, at a level intended to be accessible to doctoral students at the initial stages of their research careers.

30th AIAA Thermophysics Conference

Provides comprehensive information about the key exploration, development and optimization concepts required for gas shale reservoirs Includes statistics about gas shale resources and countries that have shale gas potential Addresses the challenges that oil and gas industries may confront for gas shale reservoir exploration and development Introduces petrophysical analysis, rock physics, geomechanics and passive seismic methods for gas shale plays Details shale gas environmental issues and challenges, economic consideration for gas shale reservoirs Includes case studies of major producing gas shale formations

Advances in Theoretical Physics

String-Math 2013

This book constitutes the refereed proceedings of the 6th International Conference on Brain Inspired Cognitive Systems, BICS 2013, held in Beijing, China in June 2013. The 45 high-quality papers presented were carefully reviewed and selected from 68 submissions. BICS 2013 aims to provide a high-level international forum for scientists, engineers, and educators to present the state of the art of brain inspired cognitive systems research and applications in diverse fields.

Fundamentals of Gas Shale Reservoirs

Neural Information Processing with Dynamical Synapses

Advances in Biological and Medical Physics, Volume VIII is a collection of papers that deals with chemical elements of blood, neutron activation analysis, and low level gamma-ray scintillation spectrometry. One paper describes the analysis of a large number of chemical elements in a single sample of human blood serum that includes the mean values gathered for 66 chemical elements. Another paper reviews the application of neutron activation analysis to biological and medical research, particularly in the detection and quantitation of trace elements in biological tissues. Some papers discuss the use of heavy ions in molecular and cellular radiobiology, the physics of space radiation, and carcinogenesis mechanisms. One paper discusses the radio-biological consequences of the ionizing radiation on a biological system that depends on the spatial distribution of the energy the system absorbs. The paper notes that the efficiency of heavy ions to inactivate dried enzymes kept at various constant temperatures during the exposure differs significantly from results obtained from that of sparsely ionizing radiations. Results gathered from comparisons of model and experiments, show that indirect energy transfers, such as those made by intermediary free radicals or other secondary reaction products, can play a role in carcinogenesis. The collection can prove beneficial for biochemists, micro-biologists, cellular researchers, and academicians involved in medical physics, radiological physics, or in the study of cellular biology and oncology.

1984 International Conference on Plasma Physics

Worlds without End

Winter Maintenance and Preservation 2013

This volume is devoted to the most recent discoveries in mathematics and statistics. It also serves as a platform for knowledge and information exchange between experts from industrial and academic sectors. The book covers a wide range of topics, including mathematical analyses, probability, statistics, algebra, geometry, mathematical physics, wave propagation, stochastic processes, ordinary and partial differential equations, boundary value problems, linear operators, cybernetics and number and functional theory. It is a valuable resource for pure and applied mathematicians, statisticians, engineers and scientists.

Soviet Physics, JETP.

The following analysis illustrates the underlying trends and relationships of U.S. issued patents of the subject company. The analysis employs two frequently used patent classification methods: US Patent Classification (UPC) and International Patent Classification (IPC). Aside from assisting patent examiners in determining the field of search for newly submitted patent applications, the two classification methods play a pivotal role in the characterization and analysis of technologies contained in collections of patent data. The analysis also includes the company's most prolific inventors, top cited patents as well as foreign filings by technology area.

31st AIAA Plasmadynamics and Lasers Conference

AT&T Inc Patent Landscape Analysis - January 1, 1994 to December 31, 2013

What are the chemical aspects of graphene as a novel 2D material and how do they relate to the molecular structure? This book addresses these important questions from a theoretical and computational standpoint. Graphene Chemistry: Theoretical Perspectives presents recent exciting developments to correlate graphene's properties and functions to its structure through state-of-the-art computational studies. This book focuses on the chemistry aspect of the structure-property relationship for many fascinating derivatives of graphene; various properties such as electronic structure, magnetism, and chemical reactivity, as well as potential applications in energy storage, catalysis, and nanoelectronics are covered. The book also includes two chapters with significant experimental portions, demonstrating how deep insights can be obtained by joint experimental and theoretical efforts. Topics covered include: Graphene ribbons: Edges, magnetism, preparation from unzipping, and electronic transport Nanographenes: Properties, reactivity, and synthesis Clar sextet rule in nanographene and graphene nanoribbons Porous graphene, nanomeshes, and graphene-based architecture and assemblies Doped graphene: Theory, synthesis, characterization and applications Mechanisms of graphene growth in chemical vapor deposition Surface adsorption and functionalization of graphene Conversion between graphene and graphene oxide Applications in gas separation, hydrogen storage, and catalysis Graphene Chemistry: Theoretical Perspectives provides a useful overview for computational and theoretical chemists who are active in this field and those who have not studied graphene before. It is also a valuable resource for experimentalist scientists working on graphene and related materials, who will benefit from many concepts and properties discussed here.

Soviet Physics

The Global Politics of Science and Technology - Vol. 2

The next financial collapse will resemble nothing in history. . . . Deciding upon the best course to follow will require comprehending a minefield of risks, while poised at a crossroads, pondering the death of the dollar. The U.S. dollar has been the global reserve currency since the end of World War II. If the dollar fails, the entire international monetary system will fail with it. But optimists have always said, in essence, that confidence in the dollar will never truly be shaken, no matter how high our national debt or how dysfunctional our government. In the last few years, however, the risks have become too big to ignore. While Washington is gridlocked, our biggest rivals—China, Russia, and the oil-producing nations of the Middle East—are doing everything possible to end U.S. monetary hegemony. The potential results: Financial warfare. Deflation. Hyperinflation. Market collapse. Chaos. James Rickards, the acclaimed author of *Currency Wars*, shows why money itself is now at risk and what we can all do to protect ourselves. He explains the power of converting unreliable investments into real wealth: gold, land, fine art, and other long-term stores of value.

Who's who in Atoms

Curvature in Mathematics and Physics

Proceedings of the 2011 Theoretical Advanced Study Institute in Elementary Particle Physics

This book constitutes the refereed proceedings of the 28th International Supercomputing Conference, ISC 2013, held in Leipzig, Germany, in June 2013. The 35 revised full papers presented together were carefully reviewed and selected from 89 submissions. The papers cover the following topics: scalable applications with 50K+ cores; performance improvements in algorithms; accelerators; performance analysis and optimization; library development; administration and management of supercomputers; energy efficiency; parallel I/O; grid and cloud.

The Death of Money

The Journal on Advanced Studies in Theoretical and Experimental Physics, including Related Themes from Mathematics

Advances in Biological and Medical Physics

A religion professor elucidates the theory of the multiverse, its history, and its reception in science, philosophy, religion, and

literature. Multiverse cosmologies imagine our universe as just one of a vast number of others. Beginning with ancient Atomist and Stoic philosophies, Mary-Jane Rubenstein links contemporary models of the multiverse to their forerunners and explores the reasons for their recent appearance. One concerns the so-called fine-tuning of the universe: nature's constants are so delicately calibrated that it seems they have been set just right to allow life to emerge. For some thinkers, these "fine-tunings" are evidence of the existence of God; for others, however, and for most physicists, "God" is an insufficient scientific explanation. Hence the multiverse's allure: if all possible worlds exist somewhere, then like monkeys hammering out Shakespeare, one universe is bound to be suitable for life. Of course, this hypothesis replaces God with an equally baffling article of faith: the existence of universes beyond, before, or after our own, eternally generated yet forever inaccessible to observation or experiment. In their very efforts to sidestep metaphysics, theoretical physicists propose multiverse scenarios that collide with it and even produce counter-theological narratives. Far from invalidating multiverse hypotheses, Rubenstein argues, this interdisciplinary collision actually secures their scientific viability. We may therefore be witnessing a radical reconfiguration of physics, philosophy, and religion in the modern turn to the multiverse. "Rubenstein's witty, thought-provoking history of philosophy and physics leaves one in awe of just how close Thomas Aquinas and American physicist Steven Weinberg are in spirit as they seek ultimate answers."—Publishers Weekly "A fun, mind-stretching read, clear and enlightening."—San Francisco Book Review

Memoirs of the National Defense Academy (Science and Engineering)

At Copenhagen in June 1988, the 80th Anniversary of the birth of L D Landau, the much respected Soviet physicist and author of the Course on Theoretical Physics, published by Pergamon Press, was celebrated with an International Symposium in his honour. The papers presented at that meeting are published here, providing an overview of recent progress in theoretical physics, covering super-string theories, chaos, high Tc superconductivity and biomolecules.

World Congress on Medical Physics and Biomedical Engineering, June 7-12, 2015, Toronto, Canada

Women Scientists

"TRB Transportation Research Record: Journal of the Transportation Research Board, No. 2329 consists of eight papers that explore highway anti-icer performance, remote sensing of weather and road surface conditions, statewide benefits of winter maintenance operations, measurement of salt on winter pavements, rural variable speed limits, extreme weather risk indicators, macroscopic traffic parameters, and temperature distribution in soil profiles." Pub. info.

Japanese Journal of Applied Physics

Surface Catalysis and Characterization of Proposed Candidate TPS for Access-to-Space Vehicles

Canadian Journal of Physics

An increasing number of scholars have begun to see science and technology as relevant issues in International Relations (IR), acknowledging the impact of material elements, technical instruments, and scientific practices on international security, statehood, and global governance. This two-volume collection brings the debate about science and technology to the center of International Relations. It shows how integrating science and technology translates into novel analytical frameworks, conceptual approaches and empirical puzzles, and thereby offers a state-of-the-art review of various methodological and theoretical ways in which sciences and technologies matter for the study of international affairs and world politics. The authors not only offer a set of practical examples of research frameworks for experts and students alike, but also propose a conceptual space for interdisciplinary learning in order to improve our understanding of the global politics of science and technology. The second volume raises a plethora of issue areas, actors, and cases under the umbrella notion techno-politics. Distinguishing between interactional and co-productive perspectives, it outlines a toolbox of analytical frameworks that transcend technological determinism and social constructivism.

Progress in Physics, vol. 4/2013

This volume contains the proceedings of the conference 'String-Math 2013' which was held June 17-21, 2013 at the Simons Center for Geometry and Physics at Stony Brook University. This was the third in a series of annual meetings devoted to the interface of mathematics and string theory. Topics include the latest developments in supersymmetric and topological field theory, localization techniques, the mathematics of quantum field theory, superstring compactification and duality, scattering amplitudes and their relation to Hodge theory, mirror symmetry and two-dimensional conformal field theory, and many more. This book will be important reading for researchers and students in the area, and for all mathematicians and string theorists who want to update themselves on developments in the math-string interface.

International Aerospace Abstracts

OPTIROB 2013

Revista Mexicana de Astronomía Y Astrofísica

The main objective for this collection of 80 peer reviewed papers was to provide a platform for researchers, engineers, academicians as well as industrial professionals to present their latest experiences and developments activities in the field of Smart Systems and their Applications in Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechatronics and Neurorehabilitation.

7th AIAA/ASME Joint Thermophysics and Heat Transfer Conference

Soviet Physics, Doklady

Expert treatment introduces semi-Riemannian geometry and its principal physical application, Einstein's theory of general relativity, using the Cartan exterior calculus as a principal tool. Prerequisites include linear algebra and advanced calculus. 2012 edition.

Graphene Chemistry

5th Interdisciplinary Workshop Nonlinear Coherent Structures in Physics, Mechanics and Biological Systems

Canadian Journal of Earth Sciences

This book constitutes the refereed proceedings of the 8th IFIP WG 11.8 World Conference on Security Education, WISE 8, held in Auckland, New Zealand, in July 2013. It also includes papers from WISE 6, held in Bento Gonçalves, Brazil, in July 2009 and WISE 7, held in Lucerne, Switzerland in June 2011. The 34 revised papers presented were carefully reviewed and selected for inclusion in this volume. They represent a cross section of applicable research as well as case studies in

security education.

Advances in Brain Inspired Cognitive Systems

Information Assurance and Security Education and Training

International Conference on Mathematical Sciences and Statistics 2013

This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics, a tri-annual high-level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine. The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare. It provides a unique and important forum to secure a coordinated, multileveled global response to the need, demand and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health.

Soviet Journal of Nuclear Physics

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