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5V8EV0 - JOHNNY DWAYNE

This book examines current trends in higher education and the Scholarship of Teaching and Learning. It introduces readers to pedagogical strategies that instructors worldwide are using to overcome some of the challenges they face in higher education. To maximize their students' learning, this work argues that institutions are compelled to innovate their policies and instructors must be collaborative and creative in their practices in response to students' growing demands, needs, challenges to their learning, and the shifting terrain of a rapidly globalizing world. The text explores the idiosyncrasies and challenges that drive innovation across particular cultures, disciplines and institutions. It suggests that the responses to these drivers offer some universal and compatible lessons that not only optimize teaching and learning, but also transgress institutional, cultural, and disciplinary boundaries in higher education. The contributors to this collection work in the United States, the United Kingdom, Africa, Asia, Australia, Scandinavia and the Middle East. They represent a broad range of disciplines, fields and institutional types. They teach in varied contexts, durations, delivery modes, and formats, including online, study abroad, blended, accelerated, condensed, intensive and mortar-and-brick settings. Their higher education students are equally as diverse, in age, cultural backgrounds and needs, but willingly lend their voices and experiences to their instructors' study of teaching and learning in their particular contexts. This book harnesses the rich diversities and range our contributors represent and shares the results of their expertise, research, and assessments of some of the most creative and effective ways to improve student learning in the face of stagnant

practices, limited resources, and other deficiencies that instructors and students face in higher education.

This is the last of three volumes of the extensively revised and updated second edition of the Handbook of Superconductivity. The past twenty years have seen rapid progress in superconducting materials, which exhibit one of the most remarkable physical states of matter ever to be discovered. Superconductivity brings quantum mechanics to the scale of the everyday world. Viable applications of superconductors rely fundamentally on an understanding of these intriguing phenomena and the availability of a range of materials with bespoke properties to meet practical needs. While the first volume covers fundamentals and various classes of materials, the second addresses processing of these into various shapes and configurations needed for applications, and ends with chapters on refrigeration methods necessary to attain the superconducting state and the desired performance. This third volume starts with a wide range of methods permitting one to characterize both the materials and various end products of processing. Subsequently, diverse classes of both large scale and electronic applications are described. Volume 3 ends with a glossary relevant to all three volumes. Key Features: Covers the depth and breadth of the field Includes contributions from leading academics and industry professionals across the world Provides hands-on familiarity with the characterization methods and offers descriptions of representative examples of practical applications A comprehensive reference, the handbook is suitable for both graduate students and practitioners in experimental physics, materials science, and multiple engineering disciplines, including electronic and electrical, chemical, mechanical, metallurgy and others.

The Standard Model of elementary particles, although very successful, contains various elements that are put in by hand. Understanding their origin requires going beyond the model and searching for “new physics”. The present book elaborates on one particular proposal concerning such physics. While the original conception is 50 years old, it has not lost its appeal over time. Its basic idea is that space — an arena of events treated in the Standard Model as a classical background — is a concept which emerges from a strictly discrete quantum layer in the limit of large quantum numbers. This book discusses an extension of this view by replacing space with phase space. It combines the results of the author's research papers and places them in much broader philosophical and phenomenological contexts, thus providing further arguments in favor of the proposed alternative. The book should be of interest to the philosophically-minded readers who are willing to contemplate unorthodox ideas on the very nature of the world. Contents:IntroductionPhilosophy and Physics:Reality and Its DescriptionClassical and Quantum Aspects of RealityTime for a ChangeElementary Particles:The Standard Model and the Subparticle ParadigmThe Problem of MassConstituent Quarks and Spacetime PointsElementary Particles and Macroscopic SpacePhase Space and Quantum:Phase Space and Its SymmetriesQuantizing Phase SpaceElementary Particles from a Phase-Space PerspectiveGeneralizing the Concept of MassOverview Readership: Professionals and researchers in theoretical physics, philosophy of science, particle physics and quantum physics. Keywords:Elementary Particles;Classical-Quantum Tension;Emergent Spacetime;Process Philosophy;Being and Becoming;Time and Change;Standard Mod-

el;Problem of Mass;Current and Constituent Quarks;Low-Energy Hadron Phenomenology;Space Quantization;Born's Reciprocity;Phase-Space Symmetries;Dirac Linearization;Clifford Algebra;Internal Quantum Numbers;Hariri-Shupe Preon Model;Hadron and Quark CompositenessKey Features:The main idea is supported by a rare, coherent combination of philosophical, theoretical and phenomenological argumentsThe book uniquely links the structure of a single Standard Model generation of elementary particles to the symmetries of nonrelativistic phase spaceThe book suggests a novel way of looking at the concept of quark mass, as well as that of mass in general

This two-volume set (LNAI 9329 and LNAI 9330) constitutes the refereed proceedings of the 7th International Conference on Collective Intelligence, ICCCI 2014, held in Madrid, Spain, in September 2015. The 110 full papers presented were carefully reviewed and selected from 186 submissions. They are organized in topical sections such as multi-agent systems; social networks and NLP; sentiment analysis; computational intelligence and games; ontologies and information extraction; formal methods and simulation; neural networks, SMT and MIS; collective intelligence in Web systems – Web systems analysis; computational swarm intelligence; cooperative strategies for decision making and optimization; advanced networking and security technologies; IT in biomedicine; collective computational intelligence in educational context; science intelligence and data analysis; computational intelligence in financial markets; ensemble learning; big data mining and searching.

The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 270 questions and answer for job interview and as a BONUS 145 links to video movies and web addresses to 205 recruitment companies where you may apply for a job. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

With applications in quantum field theory, elementary particle physics and general relativity, this two-volume work studies invariance of differential operators under Lie algebras, quantum groups, superalgebras including infinite-dimensional cases, Schrödinger algebras, applications to holography. This first volume covers the general aspects of Lie algebras and group theory supplemented by many concrete examples for a great variety of noncompact semisimple Lie algebras and groups. Contents:IntroductionLie Algebras and GroupsReal Semisimple Lie AlgebrasInvariant Differential OperatorsCase of the Anti-de Sitter GroupConformal Case in 4DKazhdan–Lusztig Polynomials, Subsingular Vectors, and Conditionally Invariant EquationsInvariant Differential Operators for Noncompact Lie Algebras Parabolically Related to Conformal Lie AlgebrasMultilinear Invariant Differential Operators from New Generalized Verma ModulesBibliographyAuthor IndexSubject Index

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Climate Change: Alternate Governance Policy for South Asia provides an assessment of climate change issues through the socioeconomic lens of one of the world’s poorest, most populous regions. Although climate change is a global issue, localized solutions have become increasingly necessary to address political, economic and cultural factors in underdeveloped regions. Identifying successes, gaps and shortcomings in existing policies and regional laws relating to climate change, this book evaluates the sustainability of current practices, examining mitigation strategies and suggesting a comprehensive, innovative model of sustainable policies and governance strategy specific to the region. While the book approaches climate change, policy and mitigation from a regionally-focused standpoint, it has an underlying philosophy of Think Global, Act Local, making it universally applicable to anyone interested in climate change and its effects. Approaches climate change, policy and mitigation from a regionally focused standpoint Includes mitigation approaches and solutions directly applicable to the sociocultural environment of South Asia Provides a research-based compilation of relevant science, policy and social issues that are set alongside a critical assessment of data and practical examples Authored by experts with extensive experience in geoscience and human development throughout South Asia

The volume is the outcome of the conference "Lie superalgebras," which was held at the Istituto Nazionale di Alta Matematica, in 2012. The conference gathered many specialists in the subject, and the talks held provided comprehensive insights into the newest trends in research on Lie superalgebras (and related topics like vertex algebras, representation theory and supergeometry). The book contains contributions of many leading esperts in the field and provides a complete account of the newest trends in research on Lie Superalgebras.

BES, the Beijing Spectrometer, began its first groundbreaking physics run, thirty years ago, in 1989. This is the first high energy physics experiment in China, and has been unique throughout the world for its thorough and extended coverage of the tau and charm energy region. Since then, the BES detector has undergone steady improvements, upgrading to BESII in 1998 and to BESIII in 2008. Over the same period, the collaboration has expanded from 150 members, across 10 institutions in China and the United States, to about 500 members, across 72 institutions and 15 countries. The physics program, too, has extended from light hadron spectroscopy, tau, and charm physics to the discovery of exotic charmonium-like states, precision tests of the Standard Model of particle physics, and searches for new physics beyond

the Standard Model.This special volume collects the proceedings of the symposium held at the Institute of High Energy Physics, Beijing, in celebration of the 30-year span of achievements and progress at the BES, BESII, and BESIII experiments. Written by many leaders of the BES collaborations, these proceedings document the early days of the BES experiments, important milestones, and the future physics program at BESIII.

This volume contains selected papers authored by speakers and participants of the 2013 Arbeitstagung, held at the Max Planck Institute for Mathematics in Bonn, Germany, from May 22-28. The 2013 meeting (and this resulting proceedings) was dedicated to the memory of Friedrich Hirzebruch, who passed away on May 27, 2012. Hirzebruch organized the first Arbeitstagung in 1957 with a unique concept that would become its most distinctive feature: the program was not determined beforehand by the organizers, but during the meeting by all participants in an open discussion. This ensured that the talks would be on the latest developments in mathematics and that many important results were presented at the conference for the first time. Written by leading mathematicians, the papers in this volume cover various topics from algebraic geometry, topology, analysis, operator theory, and representation theory and display the breadth and depth of pure mathematics that has always been characteristic of the Arbeitstagung.

This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. As a BONUS this eBook contains web addresses to 301 video movies for a better understanding of the technological process and 205 web addresses to recruitment companies where you may apply for a job.

Appraising cancer as a major medical market in the 2010s, Wall Street investors placed their bets on single-technology treatment facilities costing $100-$300 million each. Critics inside medicine called the widely-publicized proton-center boom "crazy medicine and unsustainable public policy." There was no valid evidence, they claimed, that proton beams were more effective than less costly alternatives. But developers expected insurance to cover their centers' staggeringly high costs and debts. Was speculation like this new to health care? Cancer, Radiation Therapy, and the Market shows how the radiation therapy specialty in the United States (later called radiation oncology) coevolved with its device industry throughout the twentieth-century. Academic engineers and physicians acquired financing to develop increasingly powerful radiation devices, initiated companies to manufacture the devices competitively, and designed hospital and freestanding procedure units to utilize them. In the process, they incorporated market strategies into medical organization and practice. Although palliative benefits and striking tumor reductions fueled hopes of curing cancer, scientific research all too often found serious patient harm and disappointing beneficial impact on cancer survival. This thoroughly documented and provocative inquiry concludes that public health policy needs to re-evaluate market--

driven high-tech medicine and build evidence-based health care systems.

In power electronics designs, the evaluation and prediction of potential fault conditions on semiconductors is essential for achieving safe operation and reliability, being short circuit (SC) one of the most probable and destructive failures. Recent improvements on Wide-Bandgap (WBG) semiconductors such as Silicon Carbide (SiC) and Gallium nitrite (GaN) enable power electronic designs with outstanding performance, reshaping the power electronics landscape. In comparison to Silicon (Si), SiC and GaN power semiconductors physically present smaller chip areas, higher maximum internal electric fields, and higher current densities. Such characteristics yield a much faster rise of the devices' internal temperatures, worsening their SC performance. In this way, this dissertation consists of a comprehensive investigation about SC on SiC MOSFETs, GaN HEMT, and GaN E-HEMT transistors, as well as contextualizing their particularities on SC performance by comparison with that of Si IBGTs. Moreover, an investigation towards how to prevent SC occurrences besides a review of available SC protection methods is presented.

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"Based on the proceedings of the Special Session on Geometry and Physics held over a six month period at the University of Aarhus, Denmark and on articles from the Summer school held at Odense University, Denmark. Offers new contributions on a host of topics that involve physics, geometry, and topology. Written by more than 50 leading international experts."

This handbook provides both a comprehensive overview and deep insights on the state-of-the-art methods used in wind turbine aerodynamics, as well as their advantages and limits. The focus of this work is specifically on wind turbines, where the aerodynamics are different from that of other fields due to the turbulent wind fields they face and the resultant differences in structural requirements. It gives a complete picture of research in the field, taking into account the different approaches which are applied. This book would be useful to professionals, academics, researchers and students working in the field.

This volume highlights key challenges for fluid-flow prediction in carbonate reservoirs, the approaches currently employed to address these challenges and developments in fundamental science and technology. The papers span methods and case studies that highlight workflows and emerging technologies in the fields of geology, geophysics, petrophysics, reservoir modelling and computer science. Topics include: detailed pore-scale studies that explore fundamental processes and applications of imaging and

flow modelling at the pore scale; case studies of diagenetic processes with complementary perspectives from reactive transport modelling; novel methods for rock typing; petrophysical studies that investigate the impact of diagenesis and fault-rock properties on acoustic signatures; mechanical modelling and seismic imaging of faults in carbonate rocks; modelling geological influences on seismic anisotropy; novel approaches to geological modelling; methods to represent key geological details in reservoir simulations and advances in computer visualization, analytics and interactions for geoscience and engineering.

"The 2011 Mineral, Virginia, earthquake, the largest to occur in the Appalachian region in more than 100 years, provided new seismologic, engineering, geologic, hydrologic, and geophysical data. This volume makes these results available for geoscientists, engineers, and decision makers interested in understanding earthquakes and seismic hazards in eastern North America and other intraplate settings"--

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Explores how we judge engineering education in order to effectively redesign courses and programs that will prepare new engineers for various professional and academic careers Shows how present approaches to assessment were shaped and what the future holds Analyzes the validity of teaching and judging engineering education Shows the integral role that assessment plays in curriculum design and implementation Examines the sociotechnical system’s impact on engineering curricula

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This book is a collection of fourteen essays that describe an inspiring journey through the universe and discusses popular science topics that modern physics and cosmology are struggling to deal with. What is our place in the universe and what happens in the magnificent cosmos where we exist for a brief amount of time. In an unique way that incorporates mythological and philosophical perspectives, the essays in this work address the big questions of what the universe is, how it came into being, and where it may

be heading. This exciting adventure is a rich scientific history of elegant physics, mathematics, and cosmology as well as a philosophical and spiritual pursuit fueled by the human imagination.
This book provides a collection of the latest advances in engineering education in the Middle East and North Africa (MENA) region and sheds insights for future development. It is one of the first books to address the lack of comprehensive literature on undergraduate engineering curricula, and stimulates intellectual and critical discourse on the next wave of engineering innovation and education in the MENA region. The authors look at recent innovations through the lens of four topics: learning and teaching, curriculum development, assessment and accreditation, and challenges and sustainability. They also include analyses of pedagogical innovations, models for transforming engineering education, and methods for using technological innovations to enhance active learning. Engineering education topics on issues such as construction, health and safety, urban design, and environmental engineering in the context of the MENA region are covered in further detail. The book concludes with practical recommendations for implementations in engineering education. This is an ideal book for engineering education academics, engineering curriculum developers and accreditation specialists, and deans and leaders in engineering education.

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This book offers you a brief, but very involved look into the operations in the exploitation of Oil & Gas wells that will help you to be prepared for job interview at oil & gas companies. From start to finish, you'll see a general prognosis of the production process. If you are new to the oil & gas industry, you'll enjoy having a leg up with the knowledge of these processes. If you are a seasoned oil & gas person, you'll enjoy reading what you may or may not know in these pages. This course provides a non-technical overview of the phases, operations and terminology used on offshore production platforms. It is intended also for non-drillling personnel who work in the offshore drilling, exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of drilling operations, with a particular focus on the unique aspects of offshore operations.
The world has become obsessed with the Western notions of progress, development, and globalization, the latter a form of human and economic homogenization. These processes, through

the aegis of the United Nations, are comparatively monitored. Those nations deemed to be ‘lagging behind’ are then provided with foreign aid and developmental assistance. For nearly seventy years, India has sought its place in this global endeavour; yet, even today, abject poverty and backwardness can be observed in districts in almost every state; with the highest concentration of such districts found in the state of Bihar and a cultural enclave, known as Mithila. Development in India has been elusive because it is difficult to define; and because the Western concepts of development and progress have no absolute equivalents within many non-Western settings. As a consequence, development programmes often fail because they are unable to ask the right questions, but equally important is the political economy derived from foreign aid. For politicians, there is no long-term benefit to be derived from successful development. In general, foreign aid only serves to corrupt governments and politicians and, in the end, does very little for those who need help. The struggling states of Bihar and Mithila serve as extreme examples of India‘s problems. Development here has been thwarted by a hereditary landed aristocracy supported by religion, casteism, custom, social stratification, tradition, and patterns of behaviour that can be traced back millennia. In turn, all these have been masterfully manipulated by co-opted politicians, who have turned politics into a veritable art form as this volume comprehensively demonstrates.

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This book is a printed edition of the Special Issue "Harmonic Oscillators In Modern Physics" that was published in Symmetry

Principles is the first volume of the five-volume set Rock Mechanics and Engineering and contains twenty-four chapters from key experts in the following fields: - Discontinuities; - Anisotropy; - Rock Stress; - Geophysics; - Strength Criteria; - Modeling Rock Deformation and Failure. The five-volume set “Comprehensive Rock Engineering”, which was published in 1993, has had an important influence on the development of rock mechanics and rock engineering. Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a

comparable, new compilation. Rock Mechanics and Engineering represents a highly prestigious, multi-volume work edited by Professor Xia-Ting Feng, with the editorial advice of Professor John A. Hudson. This new compilation offers an extremely wideranging and comprehensive overview of the state-of-the-art in rock mechanics and rock engineering and is composed of peer-reviewed, dedicated contributions by all the key experts worldwide. Key features of this set are that it provides a systematic, global summary of new developments in rock mechanics and rock engineering practices as well as looking ahead to future developments in the fields. Contributors are worldrenowned experts in the fields of rock mechanics and rock engineering, though younger, talented researchers have also been included. The individual volumes cover an extremely wide array of topics grouped under five overarching themes: Principles (Vol. 1), Laboratory and Field Testing (Vol. 2), Analysis, Modelling and Design (Vol. 3), Excavation, Support and Monitoring (Vol. 4) and Surface and Underground Projects (Vol. 5). This multi-volume work sets a new standard for rock mechanics and engineering compendia and will be the go-to resource for all engineering professionals and academics involved in rock mechanics and engineering for years to come.

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Traditionally, Lie theory is a tool to build mathematical models for

physical systems. Recently, the trend is towards geometrization of the mathematical description of physical systems and objects. A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure. Geometrization and symmetries are meant in their widest sense, i.e., representation theory, algebraic geometry, infinite-dimensional Lie algebras and groups, superalgebras and supergroups, groups and quantum groups, noncommutative geometry, symmetries of linear and nonlinear PDE, special functions, and others. Furthermore, the necessary tools from functional analysis and number theory are included. This is a big interdisciplinary and interrelated field. Samples of these fresh trends are presented in this volume, based on contributions from the Workshop "Lie Theory and Its Applications in Physics" held near Varna (Bulgaria) in June 2013. This book is suitable for a broad audience of mathematicians, mathematical physicists, and theoretical physicists and researchers in the field of Lie Theory.

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In 2012, Australia took the major step of introducing a carbon price, involving the creation of a system of emissions permits initially issued at a fixed price. Carbon Pricing brings together experts instrumental in the development, and operation, of A