

Quantum Solutions Shipping

Mesoporous materials are capturing great interest thanks to their exceptional surface area, uniform and tunable pore size, ease surface functionalization, thus enabling broad series of intervention in the field of nanomedicine. This Book is thus dedicated to the most recent advances in the field, collecting research papers and reviews. It spans from the synthesis and characterization of the mesoporous material, especially those made of silica, silicon and bioactive glasses, to their functionalization with smart gate-keepers, reporter molecules or targeting ligands, up to their in-vitro applications in the nanomedicine field. Since many years, these aspects foster a deep investigation on mesoporous nanoparticles, to design and fabricate biocompatible, smart and stimuli-responsive nanotools for controlled drug- or gene-delivery, theranostics applications, in particular for cancer therapy, and tissue engineering

The Supplement discusses recent case law, legislation and issues affecting the practice and development of tort law. Providing coverage of the latest developments in all aspects of the law of torts, this First Supplement brings the 20th Edition of Clerk & Lindsell on Torts fully up to date

This book presents various computational and cognitive modeling approaches in the areas of health, education, finance, environment, engineering, commerce, and industry. It is a collection of selected conference papers presented at the 4th International Conference on Trends in Cognitive Computation Engineering (TCCE 2022), hosted by Mawlana Bhashani Science and Technology University, Tangail, Bangladesh, during December 17–18, 2022. It shares cutting-edge insights and ideas from mathematicians, engineers, scientists, and researchers and discusses fresh perspectives on problem solving in a range of research areas

Due to COVID-19 pandemic the conference was held virtually. This book constitutes the refereed proceedings of the 12th International Conference on Computational Logistics, ICCL 2021, held in September 2021. The 42 full papers were carefully reviewed and selected from 111 submissions. They detail the interface of complex logistics systems and advanced computational methods from the fields of operations research, business analytics, and artificial intelligence. The papers are organized in topical sections named maritime and port logistics; supply chain and production management; urban transport and collaborative logistics; routing, dispatching, and scheduling; air logistics and multi-modal transport

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Brain Tumor Targeting Drug Delivery Systems: Advanced Nanoscience for Theranostics Applications is a comprehensive reference focused on the latest advancements in nanotechnology for brain tumor therapy. This informative resource is designed for students and research scholars in pharmacology, pharmaceutical industry scientists, professors, and clinical medicine researchers. Chapters explore theranostics-based delivery systems, including polymeric nanoparticles, liposomes, dendrimers, nanoemulsions, micelles, and inorganic nanoparticles, for precise brain tumor diagnosis and treatment. Structured into insightful chapters, this book covers the anatomy, physiology, and pathophysiology of the brain, addressing barriers to targeted drug delivery strategies. With practical insights and cutting-edge research, this book equips readers with the knowledge to develop innovative drug delivery systems for effective brain tumor diagnosis and treatment. Key Features: Structured chapters for easy understanding of nanotechnology concepts In-depth coverage of theranostics-based delivery systems for brain tumor diagnosis and treatment References for further reading and exploring new advances in drug delivery systems. With comprehensive chapters and references for further reading, this book facilitates easy understanding of the intricate nanomedical technology, empowering researchers to make significant strides in the field of brain tumor therapy

The book presents the most noteworthy methods and results discussed at the International Conference on Reliability and Statistics in Transportation and Communication (RelStat), which took place remotely from Riga, Latvia, on October 14 – 17, 2020. This book reports on cutting-edge theories and methods for analyzing complex systems, such as transportation and communication networks and discusses multi-disciplinary approaches to dependability problems encountered when dealing with complex systems in practice. It spans a broad spectrum of topics, from mathematical models and design methodologies, to software engineering, data security and financial issues, as well as practical problems in technical systems, such as transportation and telecommunications, and in engineering education

The Special Issue is made up of fifteen original research articles and three comprehensive reviews covering various topics of nanostructured materials and relative characterization from fundamental research to technological applications. Nanoparticles and nanostructured materials represent an active area of research and impact in many application fields. More than 100 scientists from universities and research institutions lent their expertise and shared their research activities to ensure the success of this Special Issue. The Special Issue “Functional Nanostructures for Sensors, Optoelectronic Devices and Drug Delivery” aims to provide an overview of the current research activities in the field of nanostructured materials with a particular emphasis on their potential applications for sensors, optoelectronic devices and biomedical systems. The recent progress obtained in the synthesis of nanomaterials, and the fundamental understanding of their properties, has driven significant advances for their technological applications. The Special Issue includes submission of original research articles and comprehensive reviews that demonstrated or summarized significant advances in the above-mentioned research fields bf06964051

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Quantum computing holds the promise of solving problems that would be intractable with conventional computers by implementing principles from quantum physics in the development of computer hardware, software and communications equipment. Includes an accompanying website featuring exercises (with solution manual) and sample algorithms from the classical telecom world, corresponding quantum-based solutions, bridging the gap between pure theory and engineering practice. Quantum-assisted computing will be the first step towards full quantum systems, and will cause immense disruption of our traditional networks. The world’s biggest manufacturers are investing large amounts of resources to develop crucial quantum-assisted circuits and devices. Introduces quantum-assisted solutions for telecom problems including multi-user detection in mobile systems, routing in IP based networks, and secure ciphering key distribution. This book provides telecommunications engineers, as well as graduate students and researchers in the fields of computer science and telecommunications, with a wide overview of quantum computing & communications and a wealth of essential, practical information. Quantum Computing and Communications: Gives an overview of basic quantum computing algorithms and their enhanced versions such as efficient database searching, counting and phase estimation. Quantum computers will revolutionize the way telecommunications networks function bf06964051

Novel Drug Delivery Systems | Transdermal Drug Delivery Systems | Mucoadhesive Drug Delivery Systems | Targeted Drugdelivery Systems | Regulatory Agencies | Quality Assurance | Good Manufacturing Practices | Validation bf06964051

Researchers in pharmaceutical industries, especially those involved in the use of gold nanoparticles in the field of drug delivery, diagnosis, targeted and early therapies will also benefit from this book. Gold Nanoparticles for Drug Delivery discusses the synthesis and characterization of gold nanoparticles (AuNPs), presenting an historical introduction to the developments in the area, discussing methods and characterization parameters, covering targeted delivery strategies, treatment of cancer, CNS conditions, infectious diseases, HIV/AIDS infection, wound healing and tissue regeneration, dentistry, gene delivery, and its photo properties used in diagnostic and therapies, and finally presenting regulatory aspects such as theranostic applications, vaccine development, toxicity, and the translation of research to marketable products. This book is a complete reference for researchers in nanotechnology drug delivery and pharmaceutical disciplines. Covers gold nanoparticles' characterization and synthesis techniques related to drug delivery Focuses on targeting strategies using gold nanoparticles for efficient drug delivery Provides a consolidated overview of applications of gold nanoparticles for drug delivery to several systems and conditions bf06964051

This second edition of IMU - CET Gateway To Maritime Education provides a comprehensive cover to the needs of marine students. It is ideal for students preparing to enter the Maritime Industry and incorporates all recent amendments bf06964051

Some of the features of this book are provided as follows: Provides elaborative description on significance and adaptability of carbon-based nanomaterial in targeted drug delivery for wide ranges of therapeutics Delivers a full-spectrum discussion on drug delivery through carbon-based nanocarriers Explores each carbon-based nanocarrier fundamentally for its drug and gene-delivery-related applications Describes critical discussion on various toxicological effects over the utilization of these nanocarriers Embraces existing as well as novel technologies/methodologies related to the synthesis and functionalization of CBNs, including graphene, graphene oxide, carbon quantum dots, carbon nanotube, fullerene, and smart carbon-based nanocarriers This book is aimed at researchers and graduate students in materials and pharmaceutical engineering, including drug delivery systems. Carbon-Based Nanocarriers for Drug Delivery enlists the latitudes and advancements in the synthesis processes, functionalization, and applications of carbon-based nanomaterials (CBNs) in targeted drug delivery systems (DDSs). The book explores the necessity, efficacy, toxicological aspects, and challenges for the application of CBN in targeted DDSs. It covers the applicability and suitability of CBNs as nanocarriers for efficient drug delivery application via elucidating the recent advancements in CBNs, their functionalized and innovative derivatives, and the relevant case studies bf06964051

Covers various trends in supply chain and logistics management, transportation, just in time delivery, warehousing, distribution, inter modal shipment systems, logistics services, purchasing and advanced technologies such as RFID. This book includes one page profiles of transportation, supply chain and logistics industry firms bf06964051

ITITS 2017 received more than 200 papers from 4 countries, and the 65 accepted papers appear in this book, which will be of interest to all those involved with the development of intelligent transport systems. Intelligent transport systems are on the increase. They employ a variety of technologies, from basic management systems to more advanced application systems, with information technology – including wireless communication, computational technologies, floating car data/cellular data such as sensing technologies and video vehicle detection – playing a major role. The conference provides a platform for professionals and researchers from industry and academia to present and discuss recent advances in the field of information technology and intelligent transportation systems; organizations and researchers involved in these fields, including distinguished academics from around the world, explore theoretical and applied topics such as emergency vehicle notification systems, automatic road enforcement, collision avoidance systems and cooperative systems. This book presents the proceedings of the 2nd International Conference on Information Technology and Intelligent Transportation Systems (ITITS 2017), held in Xi'an, People's Republic of China, in June 2017 bf06964051

Additionally, the book contains 4 keynote speeches and 3 tutorials, and one invited paper corresponding to one of the keynote speeches. This book constitutes the refereed proceedings of the 42nd International Conference on Conceptual Modeling, ER 2023, held in Lisbon, Portugal, during November 6-9, 2023. The 21 full papers were carefully reviewed and selected from 121 submissions. The papers cover a broad spectrum of classical and modern topics on conceptual modeling, including research and practice in the theories of concepts and ontologies, techniques for transforming conceptual models into effective implementations, and methods and tools for developing and communicating conceptual models bf06964051

Readers will also find: Discussions of a host of new computing technologies, including edge, cloud, and quantum computing Exploration of how the disruptive technologies such as metaverse and non-fungible tokens will impact business operations Easy-to-understand explanations of the latest, most relevant technologies with applications in accounting, marketing, and operations An essential resource for Certified Public Accountants, CPA candidates, and students of accounting and business, Emerging Technologies for Business Professionals will also earn a place in the libraries of anyone interested in adopting emerging technologies in their own organizations. The authors provide real-world examples and case studies of each of the discussed technologies, allowing readers to place the technical details in the context of identifiable business environments. In this book you will learn how to use cutting-edge technologies, including AI, analytics, robotic process automation, blockchain, and more to maintain competitive advantage while managing risks. Embrace emerging technology in your own organization with jargon-free and practical guidance In Emerging Technologies for Business Professionals: A Nontechnical Guide to the Governance and Management of Disruptive Technologies, a team of accomplished accounting systems experts and educators delivers a straightforward and jargon-free management and governance blueprint of emerging technologies ideal for business professionals. Each chapter offers simple and useful insights in new technology that can be immediately applied by business professionals bf06964051

This book is about the strategic relevance of quantum technologies. This thread further debates on quantum (arms) race at a global level in general, and in the context of the USA and China, in particular. It debates the military-specific aspects of this technology. The first theme discusses the global pattern of ongoing civilian and military research on quantum computers, quantum cryptography, quantum communications and quantum internet. The second theme explicitly identifies the relevance of these technologies in the military domain and the possible nature of quantum technology-based weapons. Various chapters of this book cohere around two specific themes. The book argues that the defence utility of these technologies is increasingly becoming obvious and is likely to change the nature of warfare in the future bf06964051

Quantum computing and quantum science are not just helpful in software but the hardware world as well. The important question that arises in the quantum computing world is to test the existing blockchain networks against quantum attacks and design quantum computing enabled secure blockchain solutions. For example, designing a single quantum repeater for long-distance quantum communication is useful in reducing the network cost, and ensuring better security levels. To design networks with quantum science, quantum-enabled devices like quantum memories and quantum repeaters can be useful to demonstrate for organizations. This book encourages professionals from different fields to provide blockchain and quantum technology-integrated solutions that incorporate low-cost, effective QoS, fast, secure, and futuristic demands. This book has introduced the quantum computing and blockchain technology aspects, their integration approaches and future directions. This book states that blockchain technology provides a secure distributed, peer-to-peer, and decentralized network with advanced cryptography primitives and protocols. This book has surveyed and proposed approaches that improve quantum computing and cryptography protocols bf06964051

These actively developing branches of physics are of great significance both for theoretical understanding of the quantum nature of optical phenomena and for practical applications. The book embraces a wide spectrum of problems falling under the concepts of "Quantum optics" and "Laser experiments". All chapters provide the necessary basic knowledge of the phenomena under discussion and well-explained mathematical calculations. Experimental contributions are presented in chapters about some quantum optics processes in photonic crystals - media with spatially modulated dielectric properties - and chapters dealing with the formation of cloud of cold atoms in magneto optical trap. The book includes theoretical contributions devoted to such problems as providing a general approach to describe electromagnetic field states with correlation functions of different nature, nonclassical properties of some superpositions of field states in time-varying media, photon localization, mathematical apparatus that is necessary for field state reconstruction on the basis of restricted set of observables, and quantum electrodynamics processes in strong fields provided by pulsed laser beams bf06964051

With engaging insights and accessible explanations, it guides readers through the exciting possibilities and implications of quantum computing, providing a roadmap for navigating the future of computing. This book delves into the fundamentals of quantum computing, its applications across various domains, the challenges it faces, and the ethical considerations it raises. \"Quantum Leap - Navigating the Future of Computing\" explores the cutting-edge field of quantum computing and its potential to revolutionize the world of technology bf06964051

Conceptual Modeling bf06964051

And the power of quantum computer is far greater than our imagination. That is, two qubits has 4 states, which is 2^n times larger than the traditional number of bits (\"0\" and \"1\"), where n is the number of contained electrons. Recently (2020,06), according to the Financial Times, Google researcher Stephen Foley claimed \"Big moment. Quantum computers use qubits 0 and 1 to process information, where, 1 represent up-spin electron, and 0 represents the down spin electron. After 10 years or more, the commercial quantum computers will come to the era of information explosion that we are now in. In other words, for n quanta, there will be n time axes processing at the same time. This means that the computing speed of quantum computers are 2^n times faster than traditional computers. In other words, the information that quantum computers can process is much larger than that of traditional computers. Google claims to have researched quantum supremacy, taking 3 mins to do a calculation classical computer would take 10,000 years to do\". Meanwhile, the up-spin electrons and the down-spin electrons are interdependent, forming a quantum entangled state or quantum superposition state. In this way, quantum computers are much faster than traditional computers. Therefore, the superposition state of quantum can be expressed as $(a|0\rangle + b|1\rangle) = (|0\rangle + |1\rangle)$. Not only this, the \"0\" and \"1\" codes of traditional computers are processed along one time axis, and quantum computers can be calculated using Shor's parallel algorithm, that is, each quantum in a quantum computer has an independent time axis, n quanta can be processed in parallel on their own time axis bf06964051

However, it is quantum mechanics, not classical mechanics, which describes the motion of the nucleons, atoms, and molecules in the microscopic world. In answering this question one cannot avoid probing the deepest foundations connecting classical and quantum mechanics. This monograph reviews some of the most current thinkings and developments in this exciting field of physics. What are then the quantum signatures of the ubiquitous chaotic behavior observed in classical physics. Recent developments in nonlinear dynamics has significantly altered our basic understanding of the foundations of classical physics bf06964051

The comprehensive overview of topics also ensures that the book is ably suited to course use, including discussion of such areas as: Bills of lading Charterparties Salvage Marine Pollution Arbitration Accidents and collisions Fully updated throughout, this sixth edition provides an invaluable source of reference and will be of use to both students and to those in practice. In-depth commentary on judicial decisions and well-balanced coverage and analysis of recent and key cases, such as The New Flamenco, The Ocean Victory, and The Kos, provide an up-to-date reference for all students on Shipping Law courses. In this well-established textbook, Simon Baughen expertly covers the whole spectrum of English shipping law, placing the highly specialised rules of shipping in a commercial context and relating them to the general principles of contract and tort law. The book's accessible narrative and useful glossary of key terms will particularly benefit students new to Shipping Law or from non-law backgrounds bf06964051

Notes in Quantum Mechanics and Quantum Computing Solutions Manual bf06964051

In a world where computer science is now an essential element in all of our lives, a new opportunity to disseminate the latest research and trends is always welcome. This book presents the proceedings of the first International Conference on Recent Trends in Computing (ICRTC 2021), which was held as a virtual event on 21 – 22 May 2021 at Sanjivani College of Engineering, Kopargaon, India due to the restrictions of the COVID-19 pandemic. The book contains 134 papers selected from 329 submitted papers after a rigorous peer-review process, and topics covered include advanced computing, networking, informatics, security and privacy, and other related fields. This online conference, aimed at facilitating academic exchange among researchers, enabled experts and scholars around from around the globe to gather for the discussion of the latest advanced research in the field despite the extensive travel restrictions still in place. The book will be of interest to all those eager to find the latest trends and most recent developments in computer science bf06964051

Quantum Mechanics and Quantum Computing Notes Solutions Manual bf06964051

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database bf06964051

The publication also takes a look at drug delivery using biodegradable microspheres; approaches to improved antibody- and peptide-mediated targeting for imaging and therapy of cancer; and biodegradable microspheres for the delivery of oral vaccines. Advances in Drug Delivery Systems, 6 focuses on the progress in drug delivery systems as manifested in the fields of international pharmaceuticals, polymer science, biotechnology, molecular biology, and cell biology. Discussions focus on therapeutic efficiency of fatty acylated antiviral antibodies; effect of artificial fatty acylation on protein binding and uptake; and controlled release of proteins from lipid microcylinders. The book examines the factors on in vitro micelle stability of adriamycin-block copolymer conjugates; vaginal and reproductive system treatments using a bioadhesive polymer; and control of the disposition profiles of proteins in the

kidney via chemical modification. The text then elaborates on mucosal delivery of macromolecules and targeted delivery of diagnostic agents by surface-modified liposomes. The selection is a valuable source material for scientists and readers interested in the advances in the systems of drug delivery. The selection first tackles biologically engineered microstructures and approaches to targeting bioactive compounds bf06964051

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