

Digital Blockchain Semantic Intelligent Computing and Applications Distributed Transfer Function Method Blockchain 3.0 for Sustainable Development Landau Equation, Boltzmann-type Equations, Discrete Models, and Numerical Methods Quantum Electrodynamics Nonautonomous Fractional Evolution Equations Regularity Theory for Generalized Navier–Stokes Equations Artificial Intelligence for Virtual Reality Meta-heuristic Optimization Techniques Applications in Engineering, Life and Social Sciences, Part B Applications in Engineering, Life and Social Sciences, Part A O-Heterocycles and Aromatics Metaverse and Digital Twins Supersymmetry Peptides and Others Alkaloids, Part 1 Smart Green Energy Production Basic Theory Terpenoids, Part 1 Rishabha Malviya Mangesh M. Ghonge Bingen Yang Deepak Khazanchi Alexander V. Bobylev Eugene Stefanovich Yong Zhou Cholmin Sin Jude Hemanth Anuj Kumar Dumitru Băileanu Dumitru Băileanu Jiaju Zhou Bhupinder Singh Vladimir K. Dobrev Jiaju Zhou Jiaju Zhou Pandian Vasant Anatoly Kochubei Jiaju Zhou

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digital blockchain big data artificial intelligence and virtual reality in healthcare ecosystem is a book that explores the revolutionary impact of blockchain big data and artificial intelligence ai on the pharmaceutical and healthcare sectors the book discusses ai big data and their applications in drug research clinical trials regulatory compliance and post marketing surveillance the book also discusses

education and training in smart pharma demonstrating the potential of ai big data and machine learning to improve workforce capacities the book discusses intellectual property and data privacy issues the legislative framework for ai adoption ethical considerations and future trends in ai enabled drug research manufacturing and healthcare innovation it is a valuable resource for healthcare professionals industrial experts and academicians offering theoretical and practical insights

artificial intelligence advancements machine intelligence innovations and semantic web developments together make up semantic intelligence technologies the edited book integrates artificial intelligence machine learning iot blockchain and natural language processing with semantic web technologies this book also aims to offer real life solutions to the pressing issues currently being faced by semantic web technologies

the distributed transfer function method dtfm is an analytical method for modeling analysis and control of a class of distributed parameter systems that are governed by partial differential equations and that can be defined over multiple interconnected subregions in this comprehensive reference the authors show how the dtfm delivers highly accurate analytical solutions in both the frequency domain and the time domain while offering a versatile modeling technique for various problems in mechanical civil aerospace electrical chemical biomechanical and vehicle engineering

this book will focus on the use of blockchain 3.0 for sustainable development this tool is invaluable for achieving transparency and trust but possibilities to benefit society more broadly are emerging that will bring a bright future for sustainable development too the adoption of blockchain in agriculture healthcare infrastructure education environment energy communication will provide revolutionary changes in the digital era

this two volume monograph is a comprehensive and up to date presentation of the theory and applications of kinetic equations the second volume covers discrete velocity models of the boltzmann equation results on the landau equation and numerical deterministic and stochastic methods for the solution of kinetic equations

this second volume of three on relativistic quantum theories of interacting charged particles discusses quantum theories of systems with variable numbers of particles basics of the fock space and quantum electrodynamics are covered with an emphasis on renormalization in contrast to the usual treatment of the

topic particles rather than fields are chosen as basic ingredients contents fock space scattering in fock space quantum electrodynamics renormalization useful integrals quantum fields of fermions quantum field of photons qed interaction in terms of particle operators relativistic invariance of qft loop integrals in qed scattering matrix in v c 2 approximation checks of physical dimensions

fractional evolution equations describe various complex and nonlocal systems with memory this volume investigates fractional evolution equations in infinite intervals the book covers a range of topics including the existence uniqueness attractivity and applications to fractional diffusion equations and fractional schrodinger equations researchers and graduate students in pure and applied mathematics will find this a useful reference

this book delves into the recent findings and research methods in the existence and regularity theory for non newtonian fluids with variable power law the aim of this book is not only to introduce recent results and research methods in the existence and regularity theory such as higher integrability higher differentiability and holder continuity for flows of non newtonian fluids with variable power laws but also to summarize much of the existing literature concerning these topics while this book mainly focuses on steady state flows of non newtonian fluids the methods and ideas presented in this book can be applied to unsteady flows as discussed in chapter 7 and other related problems such as complex non newtonian fluids plasticity elasticity p x laplacian type systems and so on the book is intended for researchers and graduate students in the field of mathematical fluid mechanics and partial differential equations with variable exponents it is expected to contribute to the advancement of mathematics and its applications

this book explores the possible applications of artificial intelligence in virtual environments these were previously mainly associated with gaming but have largely extended their area of application and are nowadays used for promoting collaboration in work environments for training purposes for management of anxiety and pain etc the development of artificial intelligence has given new dimensions to the research in this field

this book offers a thorough overview of the most popular and researched meta heuristic optimization techniques and nature inspired algorithms their wide applicability makes them a hot research topic and an efficient tool for the solution of complex optimization problems in various fields of sciences engineering and in numerous industries

this multi volume handbook is the most up to date and comprehensive reference

work in the field of fractional calculus and its numerous applications this eighth volume collects authoritative chapters covering several applications of fractional calculus in engineering life and social sciences including applications in signal and image analysis and chaos

this multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications this seventh volume collects authoritative chapters covering several applications of fractional calculus in in engineering life and social sciences including applications in biology and medicine mechanics of complex media economy and electrical devices

this 8 volume set provides a systematic description on 8 350 active marine natural products from 3 025 various kinds of marine organisms the diversity of structures biological resources and pharmacological activities are discussed in detail molecular structural classification system with 264 structural types are developed as well the 7th volume mainly illustrates the molecular formula and structures of o heterocycles and aromatics

this book covers innovative research topics on metaverse digital twins and disease screening and precision medicines which represents the convergence of three significant technological trends each with the potential to impact healthcare on its own however when combined they could establish entirely novel avenues for delivering care offering the potential to reduce costs significantly and greatly enhance patient outcomes these trends include telepresence telemedicine the digital twin dt and blockchain telepresence refers to people s capacity to virtually be together despite physical distance this can be achieved through virtual reality vr immersing the user entirely augmented reality ar overlaying artificial images onto a real image or other methods aside from vr and ar distinguish two other metaverse types lifelogging capturing storing and sharing everyday experiences and information about objects and people and the mirror world reflecting the real world but integrating and providing external environment information in the healthcare context telepresence is predominantly utilized in telemedicine which involves delivering medical services remotely

with applications in quantum field theory general relativity and elementary particle physics this four volume work studies the invariance of differential operators under lie algebras quantum groups and superalgebras this third volume covers supersymmetry including detailed coverage of conformal supersymmetry in four and some higher dimensions furthermore quantum superalgebras are also considered contents lie superalgebras conformal supersymmetry in 4d examples of conformal supersymmetry for d 4 quantum superalgebras

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the new book smart green energy production explores the innovative surfaces and intersections between intelligent algorithms and green energy technologies to advance and enhance sustainable energy solutions this comprehensive guide covers state of the art and future oriented computational strategies for optimizing or optimally controlling green energy production and managing carbon dioxide emissions key topics also include the application of smart hybrid quantum computing the efficiency of swarm intelligence the scalability of cloud computing as well as analytical heuristic and sophisticated optimization and controlling techniques this book provides a detailed analysis of how these technologies can be leveraged to create more efficient cost effective as well as human environmentally and life friendly energy systems offering readers a thorough understanding of the future of sustainable energy generation induction production and consumption

this multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications this first volume collects authoritative chapters covering the mathematical theory of fractional calculus including fractional order operators integral transforms and equations special functions calculus of variations and probabilistic and other aspects

this 8 volume set provides a systematic description on 8 350 active marine natural products from 3 025 various kinds of marine organisms the diversity of structures biological resources and pharmacological activities are discussed in detail molecular structural classification system with 264 structural types are developed in the book as well the 1st volume mainly illustrates the molecular formula and structures of terpenoids

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