

Dr G Senthil Kumar Engineering Physics Book

Smart Intelligent Computing and Communication Technology
 3rd Kuala Lumpur International Conference on Biomedical Engineering 2006
 Basic Electrical & Electronics Engineering
 Advances in Materials Research
 Handbook of Research on Aspects and Applications of Incompressible and Compressible Aerodynamics
 Encyclopedia of Iron, Steel, and Their Alloys (Online Version)
 Springer Handbook of Crystal Growth
 Modern Treatment Strategies for Marine Pollution
 Artificial Intelligence and Evolutionary Computations in Engineering Systems
 Inventive Communication and Computational Technologies
 Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network
 Materials, Design, and Manufacturing for Sustainable Environment
 Challenges and Applications for Implementing Machine Learning in Computer Vision
 Handbook of Universities
 ICASISSET 2020
 Autonomous and Connected Heavy Vehicle Technology
 Advances in Systems, Control and Automation
 Intelligent Systems and Computer Technology
 Disruptive Technologies for Big Data and Cloud Applications
 COIMBATORE SOUTH - 2021
 Biometric Authentication in Online Learning Environments
 Proceedings of International Conference on Deep Learning, Computing and Intelligence
 Information and Communication Technology for Competitive Strategies (ICTCS 2021)
 Business Environment and Technological Innovation- Emerging Trends
 Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018)
 Vibration and Damping Behavior of Biocomposites
 Proceedings of the International Conference on Information Engineering, Management and Security 2015
 Recent Advancements in Geotechnical Engineering
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 The Indian Textile Journal
 Sustainable Materials and Smart Practices

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Smart Intelligent Computing and Communication Technology Springer

This book gathers selected papers presented at the Inventive Communication and Computational Technologies conference (ICICCT 2021), held on 25–26 June 2021 at Gnanamani College of Technology, Tamil Nadu, India. The book covers the topics such as Internet of things, social networks, mobile communications, big data analytics, bio-inspired computing, and cloud computing. The book is exclusively intended for academics and practitioners working to resolve practical issues in this area.

3rd Kuala Lumpur International Conference on Biomedical Engineering 2006 Springer Nature

This book contains best selected research papers presented at ICTCS 2021: Sixth International Conference on Information and Communication Technology for Competitive Strategies. The conference will be held at Jaipur, Rajasthan, India, during December 17–18, 2021. The book covers

state-of-the-art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications. This book contains papers mainly focused on ICT for computation, algorithms and data analytics, and IT security. The book is presented in two volumes.

Basic Electrical & Electronics Engineering Archers & Elevators Publishing House

This book presents recent research on sustainable building materials and their various applications. Topics include such items as fiber reinforced concrete, the use of mineral admixtures, self-sensing cement composites, the use of nanomaterials for structural health monitoring and the production of geopolymer mortar. Keywords: Light Transmitting Concrete, Self-Compacting Concrete, Light-Weight Concrete, Polymer Concrete, Porous Concrete, Eco-Friendly Building Material, Cement Composite, Geopolymer Composites, Sustainable Bricks, Cement, Sisal Fiber, Glass Fiber, Nanomaterials, Metakaoline, Fly Ash, Silica Fume, Rice Husk Ash, Oyster Shells, Bitumen, Sugarcane Bagasse Ash, Herbocrete, Waste Foundry Sand, Swell Pressure of Clay, Quarry Dust, Sensors, Topology Optimization, Soil Stabilization.

Advances in Materials Research Springer Nature

This book gathers selected papers presented at the 4th International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems, held at the SRM Institute of Science and Technology, Kattankulathur, Chennai, India, from 11 to 13 April 2019. It covers advances and recent developments in various computational intelligence techniques, with an emphasis on the design of communication systems. In addition, it shares valuable insights into advanced computational methodologies such as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their application to decision-making and problem-solving in mobile and wireless communication networks.

Handbook of Research on Aspects and Applications of Incompressible and Compressible Aerodynamics IGI Global

Modern Treatment Strategies for Marine Pollution provides an overview of assessment tools that identify contaminants in marine water, also discussing the latest technologies for removing these contaminants. Through templated and consistently structured chapters, the author explores the importance of seawater to our marine ecosystems and the devastating effects pollutants are

causing. Sections cover the emission of toxic pollutants from industries, wastewater discharge, oil spills from boarding ships, ballast water emission, abnormal growth of algal blooms, and more. Techniques explored include huge diameter pipelines erected for removing floating debris from seawater, which is denoted as a primary idea for cleaning contaminants. The book includes numerous case studies that demonstrate how these tools can be successfully used. It is an essential read for marine ecologists and oceanographers at the graduate level and above, but is also ideal for those looking to incorporate these techniques into their own work. Presents and discusses advanced technologies used in the treatment of marine water Includes case studies to show what techniques have been successful Provides new information on contamination assessment and analytical protocols for identifying pollutants, which is essential for readers to use in their own work

Encyclopedia of Iron, Steel, and Their Alloys (Online Version) Springer Nature

Aerodynamics is a science that improves the ability to understand theoretical basics and apply fundamental physics in real-life problems. The study of the motion of air, both externally over an airplane wing and internally over a scramjet engine intake, has acknowledged the significance of studying both incompressible and compressible flow aerodynamics. The Handbook of Research on Aspects and Applications of Incompressible and Compressible Aerodynamics discusses all aspects of aerodynamics from application to theory. It further presents the equations and mathematical models used to describe and characterize flow fields as well as their thermodynamic aspects and applications. Covering topics such as airplane configurations, hypersonic vehicles, and the parametric effect of roughness, this premier reference source is an essential resource for engineers, scientists, students and educators of higher education, military experts, libraries, government officials, researchers, and academicians.

Springer Handbook of Crystal Growth IOS Press

This book comprises select peer-reviewed proceedings from the International Conference on Innovations in Mechanical Engineering (ICIME 2019). The volume covers current research in almost all major areas of mechanical engineering, and is divided into six parts: (i) automobile and thermal engineering, (ii) design and optimization, (iii) production and industrial engineering, (iv) material science and metallurgy, (v) nanoscience and nanotechnology, and (vi) renewable energy sources and CAD/CAM/CFD. The topics provide insights into different aspects of designing, modeling, manufacturing, optimizing, and processing with wide ranging applications. The contents of this book can be of interest to researchers and professionals alike.

Modern Treatment Strategies for Marine Pollution Springer Nature

ICIEMS 2015 is the conference aim is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Engineering Technology, Industrial Engineering, Application Level Security and Management Science. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

Artificial Intelligence and Evolutionary Computations in Engineering Systems Springer

Student assessment in online learning is submitted remotely without any face-to-face interaction, and therefore, student authentication is widely seen as one of the major challenges in online examination. Authentication is the process of determining whether someone or something is, in fact, who or what it is declared to be. As the dependence upon computers and computer networks grows, especially within education, the need for authentication has increased. Biometric Authentication in Online Learning Environments provides innovative insights into biometrics as a strategy to mitigate risk and provide authentication, while introducing a framework that provides security to improve e-learning and on-line examination by utilizing biometric-based authentication techniques. This book examines e-learning, security, threats in online exams, security considerations, and biometric technologies, and is designed for IT professionals, higher education administrators, professors, researchers, business professionals, academicians, and libraries seeking topics centered on biometrics as an authentication strategy within educational environments.

Inventive Communication and Computational Technologies Springer Science & Business Media

This book comprises the select proceedings of the ETAERE 2016 conference. The book aims to shed light on different systems or machines along with their complex operation, behaviors, and linear-nonlinear relationship in different environments. It covers problems of multivariable control systems and provides the necessary background for performing research in the field of control and

automation. Aimed at helping readers understand the classical and modern design of different intelligent automated systems, the book presents coverage on the control of linear and nonlinear systems, intelligent systems, stochastic control, knowledge-based systems applications, fault diagnosis and tolerant control, real-time control applications, etc. The contents of this volume will prove useful to researchers and professionals alike.

Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network Association of Scientists, Developers and Faculties (ASDF)

This book is a compendium of the proceedings of the International Conference on Big-Data and Cloud Computing. The papers discuss the recent advances in the areas of big data analytics, data analytics in cloud, smart cities and grid, etc. This volume primarily focuses on the application of knowledge which promotes ideas for solving problems of the society through cutting-edge big-data technologies. The essays featured in this proceeding provide novel ideas that contribute for the growth of world class research and development. It will be useful to researchers in the area of advanced engineering sciences.

Materials, Design, and Manufacturing for Sustainable Environment CRC Press

The Kuala Lumpur International Conference on Biomedical Engineering (BioMed 2006) was held in December 2006 at the Palace of the Golden Horses, Kuala Lumpur, Malaysia. The papers presented at BioMed 2006, and published here, cover such topics as Artificial Intelligence, Biological effects of non-ionising electromagnetic fields, Biomaterials, Biomechanics, Biomedical Sensors, Biomedical Signal Analysis, Biotechnology, Clinical Engineering, Human performance engineering, Imaging, Medical Informatics, Medical Instruments and Devices, and many more.

Challenges and Applications for Implementing Machine Learning in Computer Vision IGI Global

Over the years, many successful attempts have been chapters in this part describe the well-known processes made to describe the art and science of crystal growth, such as Czochralski, Kyropoulos, Bridgman, and o- and many review articles, monographs, symposium v- ing zone, and focus specially on recent advances in umes, and handbooks have been published to present improving these methodologies such as application of comprehensive reviews of the advances made in this magnetic elds, orientation of the growth axis, intro- eld. These publications are testament to the grow- duction of a pedestal, and shaped growth. They also ing interest in both bulk and thin- lm crystals because cover a wide range of materials from silicon and III-V of their electronic, optical, mechanical, microstructural, compounds to oxides and uorides. and other properties, and their diverse scienti c and The third part, Part C of the book, focuses on - technological applications. Indeed, most modern ad- lution growth. The various aspects of hydrothermal vances in semiconductor and optical devices would growth are discussed in two chapters, while three other not have been possible without the development of chapters present an overview of the nonlinear and laser many elemental, binary, ternary, and other compound crystals, KTP and KDP. The knowledge on the effect of crystals of varying properties and large sizes. The gravity on solution growth is presented through a c- literature devoted to basic understanding of growth parison of growth on Earth versus in a microgravity mechanisms, defect formation, and growth processes environment.

Handbook of Universities Springer Nature

The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

ICASISSET 2020 Elsevier

The first of many important works featured in CRC Press' Metals and Alloys Encyclopedia Collection, the Encyclopedia of Iron, Steel, and Their Alloys covers all the fundamental, theoretical, and application-related aspects of the metallurgical science, engineering, and technology of iron, steel, and their alloys. This Five-Volume Set addresses topics such as extractive metallurgy, powder metallurgy and processing, physical metallurgy, production engineering, corrosion engineering, thermal processing, metalworking, welding, iron- and steelmaking, heat treating, rolling, casting, hot and cold forming, surface finishing and coating, crystallography, metallography, computational metallurgy, metal-matrix composites, intermetallics, nano- and micro-structured metals and alloys, nano- and micro-alloying effects, special steels, and mining. A valuable reference for materials scientists and engineers, chemists, manufacturers, miners, researchers, and students, this must-have encyclopedia: Provides extensive coverage of properties and recommended practices Includes a wealth of helpful charts, nomograms, and figures Contains cross referencing for quick and easy search Each entry is written by a subject-matter expert and reviewed by an international panel of renowned researchers from academia, government, and industry. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

Autonomous and Connected Heavy Vehicle Technology CRC Press

This book gathers the best articles presented by researchers and industrial experts at the International Conference on "Innovative Design and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018)". The papers discuss new design concepts, analysis and manufacturing technologies, with an emphasis on achieving improved performance by downsizing; improving the weight-to-strength ratio, fuel efficiency, and operational capability at room and elevated temperatures; reducing wear and tear; and addressing NVH aspects, while balancing the challenges of Euro IV/Barat Stage IV emission norms and beyond, greenhouse effects, and recyclable materials. The innovative methods discussed here offer valuable reference material for educational and research organizations, as well as industry, encouraging them to pursue challenging projects of mutual interest.

Advances in Systems, Control and Automation Artificial Intelligence and Evolutionary Computations in Engineering Systems

This book presents the proceedings of the First National Conference on "Sustainable Management of Environment & Natural Resource through Innovation in Science and Technology" (SMTST2020). The book highlights the latest development and innovations in the fields of sustainability, natural resource management, ecology and its environmental fields, geosciences and geology, atmospheric sciences, sustainability, climate change, and extreme weather, global warming, and global change, the effect of climate change on the ecosystem, environment, and pollution, as well as putting a strong emphasis on the multidisciplinary studies.

Intelligent Systems and Computer Technology Signpost Celfon. In Technology

This book gathers selected papers presented at the International Conference on Deep Learning, Computing and Intelligence (ICDCI 2021), organized by Department of Information Technology, SRM Institute of Science and Technology, Chennai, India, during January 7-8, 2021. The conference is sponsored by Scheme for Promotion of Academic and Research Collaboration (SPARC) in association with University of California, UC Davis and SRM Institute of Science and Technology. The book presents original research in the field of deep learning algorithms and medical imaging systems, focusing to address issues and developments in recent approaches, algorithms, mechanisms, and developments in medical imaging.

Disruptive Technologies for Big Data and Cloud Applications Academic Press

IOTA is a novel cryptocurrency that uses distributed ledger technology based on directed acyclic graph data structure. Security of cryptocurrencies ought to be scrutinized in order to acquire esteemed security, attain trust, and accomplish indelible adoption. Although IOTA prefers resilient security controls, IOTA security is not yet well explored. Among all the propounded IOTA vulnerabilities that have been identified, we pragmatically exploit replay attack against IOTA. It further analyze the attack to perceive its impact. Attack methodology and proof of concept for the replay attack is presented. Our proposed exploitation methodology is based upon address reuse,

while IOTA in default mode does not reuse addresses. Distrust and privation of balance can be some of the severe impacts of this vulnerability. This system introduces the Crypto Terminal, a new open device for securing blockchain wallets.

[COIMBATORE SOUTH - 2021](#) Atlantic Publishers & Dist

Fiber-reinforced polymer composites exhibit better damping characteristics than conventional metals due to the viscoelastic nature of the polymers. There has been a growing interest among research communities and industries in the use of natural fibers as reinforcements in structural and semi-structural applications, given their environmental advantages. Knowledge of the

vibration and damping behavior of biocomposites is essential for engineers and scientists who work in the field of composite materials. *Vibration and Damping Behavior of Biocomposites* brings together the latest research developments in vibration and viscoelastic behavior of composites filled with different natural fibers. Features: Reviews the effect of various types of reinforcements on free vibration behavior Emphasizes aging effects, influence of compatibilizers, and hybrid fiber reinforcement Explores the influence of resin type on viscoelastic properties Covers the use of computational modeling to analyze dynamic behavior and viscoelastic properties Discusses

viscoelastic damping characterization through dynamic mechanical analysis. This compilation will greatly benefit academics, researchers, advanced students, and practicing engineers in materials and mechanical engineering and related fields who work with biocomposites. Editors Dr. Senthil Muthu Kumar Thiagamani, Kalasalinagam Academy of Research and Education (KARE), India Dr. Md Enamul Hoque, Military Institute of Science and Technology (MIST), Bangladesh Dr. Senthilkumar Krishnasamy, King Mongkut's University of Technology North Bangkok KMUTNB, Thailand Dr. Chandrasekar Muthukumar, Hindustan Institute of Technology & Science (HITS), India Dr. Suchart Siengchin, King Mongkut's University of Technology North Bangkok KMUTNB, Thailand

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