

Dr G Senthil Kumar Engineering Physics Book

Basic Electrical & Electronics Engineering
 Disruptive Technologies for Big Data and Cloud Applications
 Sustainable Materials and Smart Practices
 Handbook of Universities
 Biometric Authentication in Online Learning Environments
 ICASSET 2020
 Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018)
 Proceedings of the International Conference on Information Engineering, Management and Security 2015
 Recent Advancements in Geotechnical Engineering
 Recent Trends in Mechanical Engineering
 Intelligence in Big Data Technologies—Beyond the Hype
 Advances in Materials Research
 Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering
 Advances in Systems, Control and Automation
 Materials, Design, and Manufacturing for Sustainable Environment
 Handbook of Research on Aspects and Applications of Incompressible and Compressible Aerodynamics
 Autonomous and Connected Heavy Vehicle Technology
 Information and Communication Technology for Competitive Strategies (ICTCS 2021)
 COIMBATORE SOUTH - 2021
 The Indian Textile Journal
 Challenges and Applications for Implementing Machine Learning in Computer Vision
 Business Environment and Technological Innovation- Emerging Trends
 Proceedings of Data Analytics and Management
 Proceedings of International Conference on Deep Learning, Computing and Intelligence
 Encyclopedia of Iron, Steel, and Their Alloys (Online Version)
 Advances in Environment Engineering and Management
 Smart Buildings Digitalization
 Smart Intelligent Computing and Communication Technology
 Vibration and Damping Behavior of Biocomposites
 Inventive Communication and Computational Technologies
 Springer Handbook of Crystal Growth
 Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network
 Reliability and Probabilistic Safety Assessment in Multi-Unit Nuclear Power Plants
 3rd Kuala Lumpur International Conference on Biomedical Engineering 2006
 Artificial Intelligence and Evolutionary Computations in Engineering Systems
 Modern Treatment Strategies for Marine Pollution
 Intelligent Systems and Computer Technology
 THE OPPORTUNITIES OF UNCERTAINTIES: FLEXIBILITY AND ADAPTATION NEEDED IN CURRENT CLIMATE Volume II (ICT and Engineering)
 Information and Communication Technology for Competitive Strategies (ICTCS 2021)

Dr G Senthil Kumar Engineering
Physics Book

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Basic Electrical & Electronics Engineering European Alliance for Innovation

This book includes original unpublished contributions presented at the International Conference on Data Analytics and Management (ICDAM 2021), held at Jan Wzykowski University, Poland, during June 2021. The book covers the topics in data analytics, data management, big data, computational intelligence, and communication networks. The book presents innovative work by leading academics, researchers, and experts from industry which is useful for young researchers and students. Springer Nature

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

Disruptive Technologies for Big Data and Cloud

Applications CRC Press

To overcome the constraints of 5G for supporting new challenges, 6G wireless systems must be developed with new and attractive features. These systems are expected to increase performance and maximize quality of service several folds more than 5G along with other exciting features. However, 6G is still in its infancy and must be explored. The Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network discusses the technological feats used in the new 6G wireless systems. It discusses the design, automation, and uses for industry as well as testing strategies. Covering topics such as 6G architecture, smart healthcare, and wireless communication, this major reference work is an excellent resource for computer scientists, engineers, students and professors in higher education, researchers, and academicians. *Sustainable Materials and Smart Practices* Springer Nature 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.

Handbook of Universities Atlantic Publishers & Dist

The book presents the best articles presented by researchers, academicians and industrial experts in the International Conference on "Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering". The book discusses new concept designs, analysis and manufacturing technologies, where more swing is for improved performance through specific and/or multifunctional linguistic design aspects to downsize the system, improve weight to strength ratio, fuel efficiency, better operational capability at room and elevated temperatures, reduced wear and tear, NVH aspects while balancing the challenges of beyond Euro IV/Barat Stage IV emission norms, Greenhouse effects and recyclable materials. The innovative methods discussed in the book will serve as a reference material for educational and research organizations, as well as industry, to take up challenging projects of mutual interest.

Biometric Authentication in Online Learning Environments Springer

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.

ICASISSET 2020 Springer Science & Business Media

Artificial Intelligence and Evolutionary Computations in Engineering Systems Springer Nature

Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018) CRC Press

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.

Proceedings of the International Conference on Information Engineering, Management and Security 2015 IGI Global

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.

Recent Advancements in Geotechnical Engineering Springer Nature

Recent developments in soft-computation techniques have paved the way for handling huge volumes of data, thereby bringing about significant changes and technological advancements. This book presents the proceedings of the 3rd International Conference on Emerging Current Trends in Computing & Expert Technology (COMET 2020), held at Panimalar Engineering College, Chennai, India on 6 and 7 March 2020. The aim of the book is to disseminate cutting-edge developments taking place in the technological fields of intelligent systems and computer technology, thereby assisting researchers and practitioners from both institutions and industry to upgrade their knowledge of the latest developments and emerging areas of study. It focuses on technological innovations and trendsetting initiatives to improve business values, optimize business processes and enable inclusive growth for corporates, industries and education alike. The book is divided into two sections; 'Next Generation Soft Computing' is a platform for scientists, researchers, practitioners and academics to present and discuss their most recent innovations, trends and concerns, as well as the practical challenges encountered in the field. The second section, 'Evolutionary Networking and Communications' focuses on various aspects of 5G communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It brings together the latest technologies from all over the world, and also provides an excellent international forum for the sharing of knowledge and results from theory, methodology and applications in networking and communications. The book will be of interest to all those working in the fields of intelligent systems and computer technology.

Recent Trends in Mechanical Engineering Materials Research Forum LLC

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.

Intelligence in Big Data Technologies—Beyond the Hype
Elsevier

This book discusses various artificial intelligence and machine learning applications concerning smart buildings. It includes how renewable energy sources are integrated into smart buildings using suitable power electronic devices. The deployment of advanced technologies with monitoring, protection, and energy management features is included, along with a case study on automation. Overall, the focus is on architecture and related applications, such as power distribution, microgrids, photovoltaic systems, and renewable energy aspects. The chapters define smart building concepts and their related benefits. FEATURES Discusses various aspects of the role of the Internet of things (IoT) and machine learning in smart buildings Explains pertinent system architecture and focuses on power generation and distribution Covers power-enabling technologies for smart cities Includes photovoltaic system-integrated smart buildings This book is aimed at graduate students, researchers, and professionals in building systems engineering, architectural engineering, and electrical engineering.

Advances in Materials Research Association of Scientists, Developers and Faculties (ASDF)

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.

Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering Materials Research Forum LLC

We are delighted to introduce the proceedings of the first edition of the 2020 European Alliance for Innovation (EAI) International Conference on Advanced Scientific Innovation in Science, Engineering and Technology. This conference has brought innovative academics, industrial experts researchers, developers and practitioners around the world in the field of Science, Engineering and Technology to a common forum. The technical program of ICASSET 2020 consisted of 97 full papers, including 6 invited papers in oral presentation sessions at the main conference tracks. The conference tracks were: Innovative Computing, Advanced innovation technology in Communication, Industry automation, hydrogen hybrid machine, computing in medical applications, Image processing and Internet of Things (IoT) and application. Aside from the high-quality technical paper presentations, the technical program also featured two keynote

speeches, one invited talk and two technical workshops. The two keynote speeches were Dr. Hoshang Kolivand, Senior Lecturer, Liverpool John Moores University, United Kingdom and Dr. Sheldon Williamson from Canada Research Chair in Electric Energy Storage Systems for Transportation Electrification and Professor in the Department of Electrical, Computer and Software Engineering, Ontario Tech University. The two workshops organized were in the topics of Machine learning and Industrial applications. The workshop aimed to gain insights into key challenges, understanding and design criteria of employing recent technologies to develop and implement computational techniques and applications.

Advances in Systems, Control and Automation Springer Science & Business

This book comprises the select proceedings of the International Conference on Materials, Design and Manufacturing for Sustainable Environment (ICMDMSE 2020). The primary focus is on emerging materials and cutting-edge manufacturing technologies for sustainable environment. The book covers a wide range of topics such as advanced materials, vibration, tribology, finite element method (FEM), heat transfer, fluid mechanics, energy engineering, additive manufacturing, robotics and automation, automobile engineering, industry 4.0, MEMS and nanotechnology, optimization techniques, condition monitoring, and new paradigms in technology management. Contents of this book will be useful to students, researchers, and practitioners alike.

Materials, Design, and Manufacturing for Sustainable Environment Springer Nature

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.

Handbook of Research on Aspects and Applications of Incompressible and Compressible Aerodynamics Springer Nature
Geotechnical engineering has become an important discipline of civil engineering due to its rapid advancements and environmental challenges. Special emphasis is placed on innovative materials in the fields of geotechnical engineering, pavement engineering, health monitoring of structures and sustainability. Keywords: Green Building Materials, Cement Based Materials, Concrete Applications, Photocatalytic Effect on Paver Blocks, Stabilization of Black Cotton Soil, Concrete Filled Steel Tube Columns, Cenosphere, Fly Ash Brick, Stone Columns, Reinforced Concrete Beams, Interlocking Masonry Units, Lightweight Filler Materials, Soil Stabilization Using Fibres, Friction Stir Welding of Aluminum and Magnesium.

Autonomous and Connected Heavy Vehicle Technology IOS Press

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.

Information and Communication Technology for Competitive Strategies (ICTCS 2021) IGI Global

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.

COIMBATORE SOUTH - 2021 Academic Press

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 speci cally 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.