

Material Science And Engineering Km Gupta

Engineering Materials *Material Science and Engineering Technology II* **Advanced Semiconducting Materials and Devices** *Handbook of Bioplastics and Biocomposites Engineering Applications* **Python for Engineers and Scientists** **Advanced Electrical and Electronics Materials Entropy Applications in Environmental and Water Engineering** *Advances in Thermal Sciences* Advanced Semiconducting Materials and Devices **Advances in Engineering Materials** *Advances in Case-Based Reasoning* **Who's who in Indian Engineering and Industry** *Advanced Electrical and Electronics Materials* *Management of Knowledge in Project Environments* **Applications and Innovations in Expert Systems VI** Advanced Materials Research VI **Journal of the Institution of Engineers (India)** *A Text Book of Automobile Engineering Control and Optimisation of Process Systems* **A Textbook of Automobile Engineering** *Handbook of Universities* **Material Science Advances in Case-Based Reasoning** *Mining Engineering* *Internet of Vehicles and its Applications in Autonomous Driving* **Protein-Protein Interactions** **The Columbia Gazetteer of the World: A to G** **Greenhouse Gases** **Railway Directory & Year Book** **Machining and Properties of Material and Manufacturing Technology** *Handbook of Composites from Renewable Materials, Biodegradable Materials* *Journal of the Institution of Telecommunication Engineers* Case-Based Reasoning Research and Development *IoT and ICT for Healthcare Applications* Handbook of Universities **Mechanical Design: Theory and Methodology** **Journal of the Institution of Engineers (India).** Agricultural Engineering Directory **Journal of Petroleum Technology** **26th Annual Conference on Composites, Advanced Ceramics, Materials, and Structures: A-B**

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26th Annual Conference on Composites, Advanced Ceramics, Materials, and Structures: A-B Jun 22 2019

Journal of Petroleum Technology Jul 24 2019

A Text Book of Automobile Engineering May 14 2021

Control and Optimisation of Process Systems Apr 12 2021 Advances in Chemical Engineering was established in 1960 and is the definitive serial in the area. It is one of great importance to organic chemists, polymer chemists, and many biological scientists. Written by established authorities in the field, the comprehensive reviews combine descriptive chemistry and mechanistic insight and yield an understanding of how the chemistry drives the properties. This volume focuses on control and optimisation of process systems. Advances in Chemical Engineering was established in 1960 and is the definitive serial in the area. It is one of great importance to organic chemists, polymer chemists, and many biological scientists. Written by established authorities in the field, the comprehensive reviews combine descriptive chemistry and mechanistic insight and yield an understanding of how the chemistry drives the properties. Focuses on control and optimization of process systems

Greenhouse Gases Jul 04 2020 Sustainability should be a key component of every process, safeguarding resources and reserves for future generations. This book shows how a responsible use of resources is possible, offering valid technological alternatives to fight climate change. We offer current technologies and valid methods for a wide range of activities: teaching, investigation, work, business and even daily life. We encourage all our readers to join us and become part of the solution to climate change, rather than the problem. After reading this book, we are certain that you will find justified reasons to start your own personal and social awareness campaign in favour of these effective technologies against climate change.

IoT and ICT for Healthcare Applications Dec 29 2019 This book provides an insight on the importance that Internet of Things (IoT) and Information and Communication Technology (ICT) solutions can have in taking care of people's health. Key features of this book present the recent and emerging developments in various specializations in curing health problems and finding their solutions by incorporating IoT and ICT. This book presents useful IoT and ICT applications and architectures that cater to their improved healthcare requirements. Topics include in-home healthcare services based on the Internet-of-Things; RFID technology for IoT based personal healthcare; Real-time reporting and monitoring; Interfacing devices to IoT; Smart medical services; Embedded gateway configuration (EGC); Health monitoring infrastructure; and more. Features a number of practical solutions and applications of IoT and ICT on healthcare; Includes application domains such as communication technology and electronic materials and devices; Applies to researchers, academics, students, and practitioners around the world.

Advanced Electrical and Electronics Materials May 26 2022 This comprehensive and unique book is intended to cover the vast and fast-growing field of electrical and electronic materials and their engineering in accordance with modern developments. Basic and pre-requisite information has been included for easy transition to more complex topics. Latest developments in various fields of materials and their sciences/engineering, processing and applications have been included. Latest topics like PLZT, vacuum as insulator, fiber-optics, high temperature superconductors, smart materials, ferromagnetic semiconductors etc. are covered. Illustrations and examples encompass different

engineering disciplines such as robotics, electrical, mechanical, electronics, instrumentation and control, computer, and their inter-disciplinary branches. A variety of materials ranging from iridium to garnets, microelectronics, micro alloys to memory devices, left-handed materials, advanced and futuristic materials are described in detail.

Railway Directory & Year Book Jun 02 2020

Engineering Materials Oct 31 2022 Introduces Emerging Engineering Materials Mechanical, materials, and production engineering students can greatly benefit from *Engineering Materials: Research, Applications and Advances*. This text focuses heavily on research, and fills a need for current information on the science, processes, and applications in the field. Beginning with a brief overview, the book provides a historical and modern perspective on material science, and describes various types of engineering materials. It examines the industrial process for emerging materials, determines practical use under a wide range of conditions, and establishes what is needed to produce a new generation of materials. Covers Basic Concepts and Practical Applications The book consists of 18 chapters and covers a variety of topics that include functionally graded materials, auxetic materials, whiskers, metallic glasses, biocomposite materials, nanomaterials, superalloys, superhard materials, shape-memory alloys, and smart materials. The author outlines the latest advancements, including futuristic plastics, sandwich composites, and biodegradable composites, and highlights special kinds of composites, including fire-resistant composites, marine composites, and biomimetics. He also factors in current examples, future prospects, and the latest research underway in materials technology. Contains approximately 160 diagrams and 85 tables Incorporates examples, illustrations, and applications used in a variety of engineering disciplines Includes solved numerical examples and objective questions with answers *Engineering Materials: Research, Applications and Advances* serves as a textbook and reference for advanced/graduate students in mechanical engineering, materials engineering, production engineering, physics, and chemistry, and relevant researchers and practicing professionals in the field of materials science.

Machining and Properties of Material and Manufacturing Technology May 02 2020 Volume is indexed by Thomson Reuters BCI (WoS). The present volume comprises a collection of peer-reviewed papers covering engineering materials, manufacture and production, robotics, automation and control, environment-friendly design and manufacture, web/internet technologies, artificial intelligence and smart computing in design and manufacture, enterprise, management, and other related topics. This work will be invaluable to production and research engineers, and also to research students and academics interested in the field.

Internet of Vehicles and its Applications in Autonomous Driving Oct 07 2020 This book provides an insight on the importance that Internet of Vehicles (IoV) solutions can have in taking care of vehicular safety through internetworking and automation. Key features of the book are the inclusion and elaboration of recent and emerging developments in various specializations of intelligent transportation systems and their solutions by incorporating IoT (Internet of Things) and IoV. This book presents to its readers useful IoV applications and architectures that cater to their improved driving requirements and lead towards autonomous driving. The application domains have a large range in which vehicular networking, communication technology, sensor devices, computing materials and devices, IoT communication, vehicular and on-road safety, data security and other topics are included.

Handbook of Composites from Renewable Materials, Biodegradable Materials Mar 31 2020 The *Handbook of Composites From Renewable Materials* comprises a set of 8 individual volumes that brings an interdisciplinary perspective to accomplish a more detailed understanding of

the interplay between the synthesis, structure, characterization, processing, applications and performance of these advanced materials. The handbook covers a multitude of natural polymers/ reinforcement/ fillers and biodegradable materials. Together, the 8 volumes total at least 5000 pages and offers a unique publication. This 5th volume Handbook is solely focused on Biodegradable Materials. Some of the important topics include but not limited to: Rice husk and its composites; biodegradable composites based on thermoplastic starch and talc nanoparticles; recent progress in biocomposites of biodegradable polymer; microbial polyesters: production and market; biodegradable and bio absorbable materials for osteosynthesis applications; biodegradable polymers in tissue engineering; composites based on hydroxyapatite and biodegradable polylactide; biodegradable composites; development of membranes from bio-based materials and their applications; green biodegradable composites based on natural fibers; fully biodegradable all-cellulose composites; natural fiber composites with bio-derivative and/or degradable polymers; synthetic biodegradable polymers for bone tissue engineering; polysaccharides as green biodegradable platforms for building-up electroactive composite materials; biodegradable polymer blends and composites from seaweeds; biocomposites scaffolds derived from renewable resources for bone tissue repair ; pectin-based composites; recent advances in conductive composites based on biodegradable polymers for regenerative medicine applications; biosynthesis of PHAs and their biomedical applications; biodegradable soy protein isolate/poly (vinyl alcohol) packaging films and biodegradability of bio-based polymeric materials in natural environment.

Python for Engineers and Scientists Jun 26 2022 The text focuses on the basics of Python programming fundamentals and introduction to present-day applications in technology and the upcoming state-of-art trends in a comprehensive manner. The text is based on Python 3.x and it covers the fundamentals of Python with object-oriented concepts having numerous worked-out examples. It provides a learning tool for the students of beginner level as well as for researchers of advanced level. Each chapter contains additional examples that explain the usage of methods/functions discussed in the chapter. It provides numerous programming examples along with their outputs. The book • Includes programming tips to highlight the important concepts and help readers avoid common programming errors. • Provides programming examples along with their outputs to ensure the correctness and help readers in mastering the art of writing efficient Python programs. • Contains MCQ's with their answers; conceptual questions and programming questions; and solutions to some selected programming questions, for every chapter. • Discusses applications like time zone converter and password generators at the end. • Covers fundamental of Python up to object oriented concepts including regular expression. The book offers a simple and lucid treatment of concepts supported with illustrations for easy understanding, provides numerous programming examples along with their outputs, and includes programming tips to highlight the important concepts. It will be a valuable resource for senior undergraduate, graduate students, and professionals in the fields of electrical engineering, electronics and communication engineering, and computer engineering.

Mechanical Design: Theory and Methodology Oct 26 2019 This volume, Mechanical Design: Theory and Methodology, has been put together over the past four years. Most of the work is ongoing as can be ascertained easily from the text. One can argue that this is so for any text or monograph. Any such book is only a snapshot in time, giving information about the state of knowledge of the authors when the book was compiled. The chapters have been updated and are representative of the state of the art in the field of design theory and methodology. It is barely over a decade that design as an area of study was revived, mostly at the behest of industry, government, and academic leaders. Professor Nam Suh, then the head of the Engineering Directorate at the National Science Foundation, provided much of the impetus for the needed

effort. The results of early work of researchers, many of whom have authored chapters in this book, were fundamental in conceiving the ideas behind Design for X or DFX and concurrent engineering issues. The artificial intelligence community had a strong influence in developing the required computer tools mainly because the field had a history of interdisciplinary work. Psychologists, computer scientists, and engineers worked together to understand what support tools will improve the design process. While this influence continues today, there is an increased awareness that a much broader community needs to be involved.

Handbook of Universities Nov 27 2019 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.

Advanced Materials Research VI Jul 16 2021 Collection of selected, peer reviewed papers from the 2016 The 6th International Conference on Advanced Materials Research (ICAMR 2016), held on January 22-24, 2016 in Torino, Italy. The 26 papers are grouped as follows: Chapter 1: Metals and Alloys, Proc

Handbook of Universities Feb 08 2021 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.

Advanced Electrical and Electronics Materials Oct 19 2021 This comprehensive and unique book is intended to cover the vast and fast-growing field of electrical and electronic materials and their engineering in accordance with modern developments. Basic and pre-requisite information has been included for easy transition to more complex topics. Latest developments in various fields of materials and their sciences/engineering, processing and applications have been included. Latest topics like PLZT, vacuum as insulator, fiber-optics, high temperature superconductors, smart materials, ferromagnetic semiconductors etc. are covered. Illustrations and examples encompass different engineering disciplines such as robotics, electrical, mechanical, electronics, instrumentation and control, computer, and their inter-disciplinary branches. A variety of materials ranging from iridium to garnets, microelectronics, micro alloys to memory devices, left-handed materials, advanced and futuristic materials are described in detail.

Management of Knowledge in Project Environments Sep 17 2021 Management of knowledge in project environments is a unique text that brings together contributions from leading academic practitioners, to demonstrate how the management of knowledge can lead to project success in today's complex and changing business environment. The work examines how the management of knowledge, particularly the sharing of knowledge and the importance of learning through reflection, can lead to project success and improved business performance. This book is written by an international contributor team and offers practical applications, models and case studies from a variety of international perspectives.

Advances in Case-Based Reasoning Dec 09 2020 This book constitutes the refereed proceedings of the 8th European Conference on Case-Based Reasoning, ECCBR 2004, held in Fethiye, Turkey in September 2006. The book presents 31 revised full papers and 5 revised application papers together with 2 invited papers and 2 abstracts of invited talks. The coverage represents snapshot of current current issues in case-based reasoning, ranging from theoretical and methodological issues to advanced applications in various fields.

Agricultural Engineering Directory Aug 24 2019

Entropy Applications in Environmental and Water Engineering Apr 24 2022 Entropy theory has wide applications to a range of problems in the fields of environmental and water engineering, including river hydraulic geometry, fluvial hydraulics, water monitoring network design, river flow forecasting, floods and droughts, river network analysis, infiltration, soil moisture, sediment transport, surface water and groundwater quality modeling, ecosystems modeling, water distribution networks, environmental and water resources management, and parameter estimation. Such applications have used several different entropy formulations, such as Shannon, Tsallis, Rényi, Burg, Kolmogorov, Kapur, configurational, and relative entropies, which can be derived in time, space, or frequency domains. More recently, entropy-based concepts have been coupled with other theories, including copula and wavelets, to study various issues associated with environmental and water resources systems. Recent studies indicate the enormous scope and potential of entropy theory in advancing research in the fields of environmental and water engineering, including establishing and explaining physical connections between theory and reality. The objective of this Special Issue is to provide a platform for compiling important recent and current research on the applications of entropy theory in environmental and water engineering. The contributions to this Special Issue have addressed many aspects associated with entropy theory applications and have shown the enormous scope and potential of entropy theory in advancing research in the fields of environmental and water engineering.

Journal of the Institution of Engineers (India) Jun 14 2021

Journal of the Institution of Telecommunication Engineers Feb 29 2020

Advances in Engineering Materials Jan 22 2022 This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020). This book, in particular, focuses on characterizing materials using novel techniques. It covers a variety of advanced materials, viz. composites, coatings, nanomaterials, materials for fuel cells, biomaterials among others. The book also discusses advanced characterization techniques like X-ray photoelectron, UV spectroscopy, scanning electron, atomic power, transmission electron and laser confocal scanning fluorescence microscopy, and gel electrophoresis chromatography. This book gives the readers an insight into advanced material processes and characterizations with special emphasis on nanotechnology.

Material Science and Engineering Technology II Sep 29 2022 Collection of selected, peer reviewed papers from the 2013 2nd International Conference on Material Science and Engineering Technology (ICMSET 2013), November 16-17, 2013, London, United Kingdom. The 72 papers are grouped as follows: Chapter 1: Composite Materials; Chapter 2: Chemical Materials and Technologies; Chapter 3: Modelling and Analysis of Materials Properties and Technologies; Chapter 4: Nanomaterials and Nanotechnologies; Chapter 5: Advances in Energy Technology; Chapter 6: Applied Mechanics and Mechanical Engineering

Mining Engineering Nov 07 2020 Vol. 3- includes v. 190- of the Transactions.

Advanced Semiconducting Materials and Devices Feb 20 2022 This book presents the latest developments in semiconducting materials and devices, providing up-to-date information on the science, processes, and applications in the field. A wide range of topics are covered, including optoelectronic devices, metal–semiconductor junctions, heterojunctions, MISFETs, LEDs, semiconductor lasers, photodiodes, switching diodes, tunnel diodes, Gunn diodes, solar cells, varactor diodes, IMPATT diodes, and advanced semiconductors. Detailed attention is paid to advanced and futuristic materials. In addition, clear explanations are provided of, for example, electron theories, high-field effects, the Hall effect, transit-time effects, drift and diffusion, breakdown mechanisms, equilibrium and transient conditions, switching, and biasing. The book is designed to meet the needs of undergraduate engineering students and will also be very useful for postgraduate students; it will assist in preparation for examinations at colleges and universities and for other examinations in engineering. Practice questions are therefore presented in both essay and multiple choice format, and many solved examples and unsolved problems are included.

Case-Based Reasoning Research and Development Jan 28 2020 This book constitutes the refereed proceedings of the 21st International Conference on Case-Based Reasoning Research and Development (ICCBR 2014) held in Cork, Ireland, in September 2014. The 35 revised full papers presented were carefully reviewed and selected from 49 submissions. The presentations cover a wide range of CBR topics of interest both to researchers and practitioners including case retrieval and adaptation, similarity assessment, case base maintenance, knowledge management, recommender systems, multiagent systems, textual CBR, and applications to healthcare and computer games.

Journal of the Institution of Engineers (India). Sep 25 2019

Handbook of Bioplastics and Biocomposites Engineering Applications Jul 28 2022 In today's world, bioplastics are becoming increasingly prominent owing mainly to scarcity of oil, increase in the cost of petroleum-based commodities, and growing environmental concerns with the dumping of non-biodegradable plastics in landfills. This book summarizes the field of bioplastics by illustrating how

they form a unique class of research area that integrates pure and applied sciences such as chemistry, engineering and material science, to initiate solutions. Compelling science demystifies this complex and often ambiguous branch of study for benefit of all those concerned with bioplastics.

Material Science Jan 10 2021 The Book Has Been Designed To Cover All Relevant Topics In B.E. (Mechanical/Metallurgy / Material Science / Production Engineering), M.Sc. (Material Science), B.Sc. (Honours), M.Sc. (Physics), M.Sc. (Chemistry), Amie And Diploma Students. Students Appearing For Gate, Upsc, Net, Slet And Other Entrance Examinations Will Also Find Book Quite Useful. In Nineteen Chapters, The Book Deals With Atomic Structure, The Structure Of Solids; Crystal Defects; Chemical Bonding; Diffusion In Solids; Mechanical Properties And Tests Of Materials; Alloys, Phase Diagrams And Phase Transformations; Heat Treatment; Deformation Of Materials; Oxidation And Corrosion; Electric, Magnetic, Thermal And Optical Properties; Semiconductors; Superconductivity; Organic Materials; Composites; And Nanostructured Materials. Special Features: * Fundamental Principles And Applications Are Discussed With Explanatory Diagrams In A Clear Way. * A Full Coverage Of Background Topics With Latest Development Is Provided. * Special Chapters On Nanostructured Materials, Superconductivity, Semiconductors, Polymers, Composites, Organic Materials Are Given . * Solved Problems, Review Questions, Problems, Short-Question Answers And Typical Objective Type Questions Alongwith Suggested Readings Are Given With Each Chapter.

A Textbook of Automobile Engineering Mar 12 2021 A Textbook of Automobile Engineering is a comprehensive treatise which provides clear explanation of vehicle components and basic working principles of systems with simple, unique and easy-to-understand illustrations. The textbook also describes the latest and upcoming technologies and developments in automobiles. This edition has been completely updated covering the complete syllabi of most Indian Universities with the aim to be useful for both the students and faculty members. The textbook will also be a valuable source of information and reference for vocational courses, competitive exams, interviews and working professionals.

Advances in Case-Based Reasoning Dec 21 2021 The papers collected in this volume were presented at the 6th European Conference on Case-Based Reasoning (ECCBR 2002) held at The Robert Gordon University in Aberdeen, UK. This conference followed a series of very successful well-established biennial European workshops held in Trento, Italy (2000), Dublin, Ireland (1998), Lausanne, Switzerland (1996), and Paris, France (1994), after the initial workshop in Kaiserslautern, Germany (1993). These meetings have a history of attracting first-class European and international researchers and practitioners in the years interleaving with the biennial international counterpart ICCBR; the 4th ICCBR Conference was held in Vancouver, Canada in 2001. Proceedings of ECCBR and ICCBR conferences are traditionally published by Springer-Verlag in their LNAI series. Case-Based Reasoning (CBR) is an AI problem-solving approach where problems are solved by retrieving and reusing solutions from similar, previously solved problems, and possibly revising the retrieved solution to reflect differences between the new and retrieved problems. Case knowledge stores the previously solved problems and is the main knowledge source of a CBR system. A main focus of CBR research is the representation, acquisition and maintenance of case knowledge. Recently other knowledge sources have been recognized as important: indexing, similarity and adaptation knowledge. Significant knowledge engineering effort may be needed for these, and so the representation, acquisition and maintenance of CBR knowledge more generally have become important.

The Columbia Gazetteer of the World: A to G Aug 05 2020 A geographical encyclopedia of world place names contains alphabetized

entries with detailed statistics on location, name pronunciation, topography, history, and economic and cultural points of interest.

Protein-Protein Interactions Sep 05 2020 This book provides a comprehensive overview of the fundamental aspects of protein-protein interactions (PPI), including a detailed account of the energetics and thermodynamics involved in these interactions. It also discusses a number of computational and experimental approaches for the prediction of PPI interactions and reviews their principles, advantages, drawbacks, and the recent developments. Further, it offers structural and mechanistic insights into the formation of protein-protein complexes and maps different PPIs into networks to delineate various pathways that operate at the cellular level. Lastly, it describes computational protein-protein docking techniques and discusses their implications for further experimental research. Given its scope, this book is a valuable resource for students, researchers, scientists, entrepreneurs, and medical/healthcare professionals.

Advances in Thermal Sciences Mar 24 2022 This book presents select peer-reviewed proceedings of the International Conference on Futuristic Advancements in Materials, Manufacturing and Thermal Sciences (ICFAMMT 2022). The book provides an overview of the latest research in the area of thermal sciences such as computational and numerical methods in fluid flow and heat transfer, advanced energy systems, optimization of thermal systems, technologies for space, and aerospace applications, supersonic combustion, two-phase / multiphase flows. The book will be useful for researchers and professionals working in the field of thermal sciences

Who's who in Indian Engineering and Industry Nov 19 2021

Advanced Semiconducting Materials and Devices Aug 29 2022 This book presents the latest developments in semiconducting materials and devices, providing up-to-date information on the science, processes, and applications in the field. A wide range of topics are covered, including optoelectronic devices, metal–semiconductor junctions, heterojunctions, MISFETs, LEDs, semiconductor lasers, photodiodes, switching diodes, tunnel diodes, Gunn diodes, solar cells, varactor diodes, IMPATT diodes, and advanced semiconductors. Detailed attention is paid to advanced and futuristic materials. In addition, clear explanations are provided of, for example, electron theories, high-field effects, the Hall effect, transit-time effects, drift and diffusion, breakdown mechanisms, equilibrium and transient conditions, switching, and biasing. The book is designed to meet the needs of undergraduate engineering students and will also be very useful for postgraduate students; it will assist in preparation for examinations at colleges and universities and for other examinations in engineering. Practice questions are therefore presented in both essay and multiple choice format, and many solved examples and unsolved problems are included.

Applications and Innovations in Expert Systems VI Aug 17 2021 R. MILNE Intelligent Applications Ltd The papers in this volume are the Application Papers presented at ES98, the Eighteenth International Conference of the British Computer Society's Specialist Group on Expert Systems. This year has been yet another "applications" success for the conference with this volume containing seventeen papers describing either deployed applications or emerging applications. All these documented case studies provide clear evidence of the success of AI technology in solving real business problems. Six of these papers were nominated for the Best Application Award during the review process. These nominations were then reviewed by the members of the Programme Committee to select the winning paper. The papers in the volume were subject to refereeing by at least two referees. All papers which were controversial for some reason were discussed in depth by the Application Programme Committee. Ten referees from the industrial and commercial sector and nine referees from the academic sector assisted me in reviewing the papers. The review form asked the referee to score the papers according to a number of dimensions, to rate it

overall, and to offer critical comments to me, and to the authors. It also asks the referee to score their expertise in the area of each paper they review. Only reviews from 'expert' referees are used.