

Engineering Physics By Bk Pandey And S Chaturvedi

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Textbook Of Engineering Physics - Mehta
2013-01-01

This book is a sequel to the author's Engineering Physics Part I and is written to address the course curriculum in Engineering Physics-II (Course Code EAS-102) of the B.Tech syllabus of the Uttar Pradesh Technical University. The book is designed to meet the needs of the first-year undergraduate students of all branches of engineering. It provides a sound understanding of the important phenomena in physics.

Engineering Physics - Mani Naidu

Engineering Physics is designed to cater to the needs of first year undergraduate engineering students. Written in a lucid style, this book assimilates the best practices of conceptual pedagogy, dealing at length with various topics such as crystallography, principles of quantum mechanics, free electron theory of metals, dielectric and magnetic properties, semiconductors, nanotechnology, etc.

Vectors And Tensors In Engineering And Physics - Donald Danielson 2003-01-29

Vectors and Tensors in Engineering and Physics develops the calculus of tensor fields and uses this mathematics to model the physical world. This new edition includes expanded derivations and solutions, and new applications. The book provides equations for predicting: the rotations of gyroscopes and other axisymmetric solids, derived from Euler's equations for the motion of rigid bodies; the temperature decays in quenched forgings, derived from the heat equation; the deformed shapes of twisted rods

and bent beams, derived from the Navier equations of elasticity; the flow fields in cylindrical pipes, derived from the Navier-Stokes equations of fluid mechanics; the trajectories of celestial objects, derived from both Newton's and Einstein's theories of gravitation; the electromagnetic fields of stationary and moving charged particles, derived from Maxwell's equations; the stress in the skin when it is stretched, derived from the mechanics of curved membranes; the effects of motion and gravitation upon the times of clocks, derived from the special and general theories of relativity. The book also features over 100 illustrations, complete solutions to over 400 examples and problems, Cartesian components, general components, and components-free notations, lists of notations used by other authors, boxes to highlight key equations, historical notes, and an extensive bibliography.

Optical Properties of Nanostructured Random Media - Vladimir M. Shalaev 2003-07-01

The contributors to the book are world best experts in the optics of random media; they provide a state-of-the-art review of recent developments in the field including nonlinear optical and magneto-optical properties, Raman and hyper-Raman scattering, laser action, plasmon excitation and localized giant fields, imaging and spectroscopy of random media

Physics for Engineers - M. R. Srinivasan 2009

[Indian Armed Forces](#) - Bharat Verma, GM Hiranandani and BK Pandey

India's Armed Forces comprise the world's second largest Army, the fourth largest Air Force, the eighth largest Navy and the largest Coast Guard in the northern Indian Ocean. In their respective domains, these four Services are entrusted with the security of the air space above India, of more than 14,000 kilometres of land borders, 7,500 kilometres of coastline, 156,000 kilometres of shore line and an Exclusive Economic Zone of two million square kilometres. In its sixty-year post-colonial history, India's Army, Navy and Air Force have fought five wars - one against China and four against Pakistan. Every year, these Armed Services provide succour to thousands of people when rivers overflow their banks, when cyclones devastate coastal districts, and when occasional tsunamis and earthquakes maroon hundreds of thousands of people. Overseas, India has been a leading contributor to the United Nations' Peace Keeping Missions. The Indian Army operates in extremes of terrain and climate:- In the glacial terrain on the northern Himalayan borders in Siachen; in the high altitude terrain in Ladakh, Sikkim and Arunachal Pradesh; and in the mountainous terrain in Jammu & Kashmir - In the riverine plains of the Punjab and Bengal - In the desert of Rajasthan and - In the salty marshes of Kachch, Gujarat and Bengal. It is widely respected as an experienced Army that has been coping with insurgencies for sixty years and, for the last thirty years, in combating the Islamic Terrorism that has now spread across the world. The Indian peninsula straddles the Sea Lanes of Communication (SLOCs) across the northern Indian Ocean. With the strategic reach of its air arm, the Navy, jointly with the Coast Guard, safeguards India's, as well as the region's, maritime interests. The Air Force's well-equipped air squadrons, together with its capabilities of in-flight refuelling and sizeable airlift bestow deterrent strategic reach. All four services exercise, jointly and singly, with friendly regional and international counterparts to erect bridges of friendship and strengthen inter-operability as each of them transforms to cope with the 21st century. Regional peace and stability are crucial for India's societal well-being and economic development. These are best ensured by competent Armed Forces. This book provides an excellent overview by veterans

who served with honour in India's Armed Forces.

Engineering Mathematics-II - T.K.V. Iyengar, B. Krishna Gandhi, S. Ranganatham & M.V.S.S.N. Prasad

Engineering Mathematics-II

Introduction to Quantum Metrology - Waldemar Nawrocki 2015-03-24

This book presents the theory of quantum effects used in metrology and results of the author's own research in the field of quantum electronics. The book provides also quantum measurement standards used in many branches of metrology for electrical quantities, mass, length, time and frequency. This book represents the first comprehensive survey of quantum metrology problems. As a scientific survey, it propagates a new approach to metrology with more emphasis on its connection with physics. This is of importance for the constantly developing technologies and nanotechnologies in particular. Providing a presentation of practical applications of the effects used in quantum metrology for the construction of quantum standards and sensitive electronic components, the book is useful for a wide audience of physicists and metrologists in the broad sense of both terms. In 2014 a new system of units, the so called Quantum SI, is introduced. This book helps to understand and approve the new system to both technology and academic community.

Engineering Mechanics - Manoj K. Harbola 2009-01-01

Engineering Mechanics is designed to serve as a textbook for a single-semester undergraduate course on Engineering Mechanics. Beginning with a review of vector algebra and Newton's laws, the book goes on to cover concepts of statics, such as equilibrium of bodies, plane trusses, friction, and the method of virtual work. This is followed by an extensive discussion of topics in dynamics, including momentum, work and energy, rotational dynamics, and harmonic oscillators. Written in an easy-to-understand manner, the book includes a large number of solved examples which illustrate problem-solving methodology. It contains an extensive set of end-of-chapter exercises. Both solved and unsolved problems show a good gradation of difficulty levels. A summary at the end of each chapter reviews the key concepts discussed.

Engineering Chemistry - Shikha Agarwal
2019-05-23

Written in lucid language, the book offers a detailed treatment of fundamental concepts of chemistry and its engineering applications.

Handbook of Universities - Ashish Kumar
2006

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.

Basic Electrical Engineering - Mehta V.K. & Mehta Rohit 2008

For close to 30 years, □Basic Electrical Engineering□ has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits,

Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

Multiple Choice Questions in PHYSICS - S. Mohan 2021-07

This book is designed to provide in-depth knowledge in physics. The multiple choice questions would serve to enhance one's knowledge in physics. Apart from this, the book will also be useful for regular University and higher examinations. This book will help the readers to enhance their self-confidence in facing examinations by way of self-examination.

Five Total Strangers - Natalie D. Richards
2020-10-06

A New York Times Bestseller A "page-turning thriller that will keep readers guessing until the very end" (School Library Journal) about a road trip in a snowstorm that turns into bone-chilling disaster, from New York Times bestselling mystery author and "master of tension" (BCCB) Natalie D. Richards. She thought being stranded was the worst thing that could happen. She was wrong. Mira needs to get home for the holidays. Badly. But when an incoming blizzard results in a canceled connecting flight, it looks like she might get stuck at the airport indefinitely. And then Harper, Mira's glamorous seatmate from her initial flight, offers her a ride. Harper and her three friends can drop Mira off on their way home. But as they set off, Mira realizes fellow travelers are all total strangers. And every one of them is hiding something. Soon, roads go from slippery to terrifying. People's belongings are mysteriously disappearing. Someone in the car is clearly lying, and may even be sabotaging the trip—but why? And can Mira make it home alive, or will this nightmare drive turn fatal? Perfect for readers who love: YA horror books for teens Mystery books for teens Natasha Preston, Megan Miranda, Karen McManus and Ruth Ware Praise for *Five Total Strangers*: "A twisty thrill ride that will leave you breathless. I stayed up after midnight just to see how it all ended."—April Henry, New York Times bestselling author of *Girl, Stolen* "Richards is a master of tension. Suspense fans will get all the ups-and-downs of a well-paced narrative, but they may never want to drive on a snowy road

again."—BCCB "A page-turning thriller that will keep readers guessing until the very end. Just the kind of fun book one needs for a hot summer day or a cold winter's night."—School Library Journal on Five Total Strangers "High thrill factor."—Booklist Also by Natalie D. Richards: Six Months Later Gone Too Far My Secret to Tell One Was Lost We All Fall Down What You Hide

The Legacy of Nothing - Manoj Pandey

2019-01-24

The Legacy of Nothing is a collection of stories culled from the ennui of modern living. These disjointed tales of dark, disparate, desperate lives entertain, provoke and challenge our empathy. Manoj Pandey's poetic prose is an insider's job - a unique exploration of the emptiness inside the eggshell of contemporary existence.

A Textbook of Engineering Physics - M N Avadhanulu 1992

A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

Let Us C: Authentic Guide to C PROGRAMMING Language 17th Edition (English Edition) - Yashavant Kanetkar

2020-09-04

Learn the hand-crafted notes on C programming Key Features Strengthens the foundations, as a detailed explanation of programming language concepts are given Lucid explanation of the concept Well thought-out, fully working programming examples End-of-chapter exercises that would help you practice the skills learned in the chapter Hand-crafted "KanNotes" at the end of each chapter that would help the reader remember and revise the concepts covered in the chapter Focuses on how to think logically to solve a problem Description The new edition of this classic book has been thoroughly revamped, but remains faithful to the principles that have established it as a favourite amongst students, teachers and software professionals round the world. "Simplicity" - that has been the hallmark

of this book in not only its previous sixteen English editions, but also in the Hindi, Gujarati, Japanese, Korean, Chinese and US editions. This book doesn't assume any programming background. It begins with the basics and steadily builds the pace so that the reader finds it easy to handle advanced topics towards the end of the book. What will you learn C Instructions Decision Control Instruction, Loop Control Instruction, Case Control Instruction Functions, Pointers, Recursion Data Types, The C Preprocessor Arrays, Strings Structures, Console Input/Output, File Input/Output Who this book is for Students, Programmers, researchers, and software developers who wish to learn the basics of C++ programming language. Table of Contents 1. Getting Started 2. C Instructions 3. Decision Control Instruction 4. More Complex Decision Making 5. Loop Control Instruction 6. More Complex Repetitions 7. Case Control Instruction 8. Functions 9. Pointers 10. Recursion 11. Data Types Revisited 12. The C Preprocessor 13. Arrays 14. Multidimensional Arrays 15. Strings 16. Handling Multiple Strings 17. Structures 18. Console Input/Output 19. File Input/Output 20. More Issues In Input/Output 21. Operations On Bits 22. Miscellaneous Features 23. Interview FAQs Appendix A- Compilation and Execution Appendix B- Precedence Table Appendix C- Chasing the Bugs Appendix D- ASCII Chart Periodic Tests I to IV, Course Tests I, II Index About the Authors Through his books and Quest Video Courses on C, C++, Java, Python, Data Structures, .NET, IoT, etc. Yashavant Kanetkar has created, molded and groomed lacs of IT careers in the last three decades. Yashavant's books and Quest videos have made a significant contribution in creating top-notch IT manpower in India and abroad. Yashavant's books are globally recognized and millions of students/professionals have benefitted from them. Yashavant's books have been translated into Hindi, Gujarati, Japanese, Korean and Chinese languages. Many of his books are published in India, USA, Japan, Singapore, Korea and China. Yashavant is a much sought after speaker in the IT field and has conducted seminars/workshops at TedEx, IITs, IIITs, NITs and global software companies. Yashavant has been honored with the prestigious

"Distinguished Alumnus Award" by IIT Kanpur for his entrepreneurial, professional and academic excellence. This award was given to top 50 alumni of IIT Kanpur who have made a significant contribution towards their profession and betterment of society in the last 50 years. His LinkedIn profile: [linkedin.com/in/yashavant-kanetkar-9775255](https://www.linkedin.com/in/yashavant-kanetkar-9775255)

Principles of Engineering Physics - Chakraborty & Pal 2013

The exercise part of each chapter of the book with its broad, objective and short type question with numerical problems intends to meet all the requirements of the students.

A Text Book of Engineering Mathematics - Rajesh Pandey 2009-01-01

DYNAMICS OF INVESTMENT : the metropolitan scenario - MANJU KUMARI 2021-02-02

Dynamics of Investment Introduction 1.1.1

Indian Financial System 1.1.2 Theory of Planned Behaviour & Investment Behaviour 1.2

Background of the Problem 1.3 Theoretical

Framework & Justification 2.2 Conceptual Background and Constructs' Description 2.2.1

Attitude as a determinant of Investment

intention 2.2.2 Subjective Norms as a

determinant of Investment intention 2.2.3

Perceived Behavioural Control as a determinant

of Investment intention 2.2.4 Risk Tolerance as a

determinant of Investment intention 2.2.5

Financial Interest & Knowledge as a determinant

of Investment intention 2.2.6 Financial Self

efficacy as a determinant of Investment intention

2.2.7 Tendency towards savings and investment

as a determinant of Investment intention 4.6.1

Association between Gender and Dynamics of

Investment Intention 4.6.2 Association between

Age group and Determinants of Investment

Intention 4.6.3 Association between Education

and Determinants of investment Intention 4.6.4

Association between Occupation and

Determinants of Investment Intention 4.6.5

Association between Income and Determinants

of Investment Intention 5.2.1 Demographic

Profile of the investors 5.2.2 Determinants of

Investment Intention 5.2.3 Relationship between

Determinants and Investment Intention 5.2.4

Demographic association with the Determinants

of Investment Intention 5.2.4.1 Gender and the

Determinants of Investment Intention 5.2.4.2

Age group and Determinants of Investment

Intention 5.2.4.3 Education and Determinants of

Investment Intention 5.2.4.4 Occupation and

Determinants of Investment Intention 5.2.4.5

Income and Determinants of Investment

Intention

Networking Technologies in Smart

Healthcare - Pooja Singh 2022-12-20

This text provides novel smart network systems,

wireless telecommunications infrastructures,

and computing capabilities to help healthcare

systems using computing techniques like IoT,

cloud computing, machine and deep learning Big

Data along with smart wireless networks. It

discusses important topics, including robotics

manipulation and analysis in smart healthcare

industries, smart telemedicine framework using

machine learning and deep learning, role of UAV

and drones in smart hospitals, virtual reality

based on 5G/6G and augmented reality in

healthcare systems, data privacy and security,

nanomedicine, and cloud-based artificial

intelligence in healthcare systems. The book: •

Discusses intelligent computing through IoT and

Big Data in secure and smart healthcare

systems. • Covers algorithms, including

deterministic algorithms, randomized

algorithms, iterative algorithms, and recursive

algorithms. • Discusses remote sensing devices

in hospitals and local health facilities for patient

evaluation and care. • Covers wearable

technology applications such as weight control

and physical activity tracking for disease

prevention and smart healthcare. This book will

be useful for senior undergraduate, graduate

students, and academic researchers in areas

such as electrical engineering, electronics and

communication engineering, computer science,

and information technology. Discussing concepts

of smart networks, advanced wireless

communication, and technologies in setting up

smart healthcare services, this text will be useful

for senior undergraduate, graduate students,

and academic researchers in areas such as

electrical engineering, electronics and

communication engineering, computer science,

and information technology. It covers internet of

things (IoT) implementation and challenges in

healthcare industries, wireless network, and

communication-based optimization algorithms

for smart healthcare devices.

Physics Practical for Engineers with Viva-Voce - Chandra Mohan Singh Negi 2018-06-30

This is one of enumerable self-help or how to books with an emphasis on Engineering Physics Practical. The basic premise of the book is that there are certain simple experiments, involving no more than rudimentary Physics laws and the very basic laws of Engineering Physics for undergraduate college engineering students. But these practical are often not done or taken lightly, for several reasons. First, people don't realize how easy they are to do. Second, and more fundamental, they are not done because it does not occur to people to do them. Finally, and tragically, no one in their elementary, middle, or high school educational experience has stressed the importance of doing them, and of course neither did they teach to do them. This book is to reveal to you what the experiments are, make them readily understandable, and by means of a very easy-to-use illustrations. The main thing you should expect from this book is the theories and practical related small information more precisely about experiments. You will get a rudimentary understanding of the basic concepts behind the Engineering Physics experiment that governs the fundamental daily life questions that challenge us in life. The book is divided into seven major categories and Fifteen chapters. In this book the students will find solutions to experimental obstacles normally faced by undergraduate college engineering students. In summary, you don't need any special background or ability to profit from this book.

Swift Heavy Ions for Materials Engineering and Nanostructuring - Devesh Kumar Avasthi 2011-05-24

Ion beams have been used for decades for characterizing and analyzing materials. Now energetic ion beams are providing ways to modify the materials in unprecedented ways. This book highlights the emergence of high-energy swift heavy ions as a tool for tailoring the properties of materials with nanoscale structures. Swift heavy ions interact with materials by exciting/ionizing electrons without directly moving the atoms. This opens a new horizon towards the 'so-called' soft engineering. The book discusses the ion beam technology

emerging from the non-equilibrium conditions and emphasizes the power of controlled irradiation to tailor the properties of various types of materials for specific needs.

Solid State Physics - Mohammad Abdul Wahab 2005

Solid State Physics, a comprehensive study for the undergraduate and postgraduate students of pure and applied sciences, and engineering disciplines is divided into eighteen chapters. The First seven chapters deal with structure related aspects such as lattice and crystal structures, bonding, packing and diffusion of atoms followed by imperfections and lattice vibrations. Chapter eight deals mainly with experimental methods of determining structures of given materials. While the next nine chapters cover various physical properties of crystalline solids, the last chapter deals with the anisotropic properties of materials. This chapter has been added for benefit of readers to understand the crystal properties (anisotropic) in terms of some simple mathematical formulations such as tensor and matrix. New to the Second Edition: Chapter on: *Anisotropic Properties of Materials

Indian Journal of Pure & Applied Physics - 2009

Handbook of Computer Networks and Cyber Security - Brij B. Gupta 2019-12-31

This handbook introduces the basic principles and fundamentals of cyber security towards establishing an understanding of how to protect computers from hackers and adversaries. The highly informative subject matter of this handbook, includes various concepts, models, and terminologies along with examples and illustrations to demonstrate substantial technical details of the field. It motivates the readers to exercise better protection and defense mechanisms to deal with attackers and mitigate the situation. This handbook also outlines some of the exciting areas of future research where the existing approaches can be implemented. Exponential increase in the use of computers as a means of storing and retrieving security-intensive information, requires placement of adequate security measures to safeguard the entire computing and communication scenario. With the advent of Internet and its underlying technologies, information security aspects are

becoming a prime concern towards protecting the networks and the cyber ecosystem from variety of threats, which is illustrated in this handbook. This handbook primarily targets professionals in security, privacy and trust to use and improve the reliability of businesses in a distributed manner, as well as computer scientists and software developers, who are seeking to carry out research and develop software in information and cyber security. Researchers and advanced-level students in computer science will also benefit from this reference.

World Guide to Universities - Internationales Universitäts-Handbuch - 1976

Differential Calculus - Shanti Narayan 2005-03
This textbook commences with a brief outline of development of real numbers, their expression as infinite decimals and their representation by points along a line. While the first part of the textbook is analytical, the latter part deals with the geometrical applications of the subject. Numerous examples and exercises have been provided to support student's understanding. This textbook has been designed to meet the requirements of undergraduate students of BA and BSc courses.

Engineering Physics, 2nd Edition - G. Vijayakumari 2009-11-01

Engineering Physics has been written keeping in mind the first year engineering students of all branches of various Indian universities. The second edition provides more examples with solution. It also offers university question papers of recent years with model solutions.

Advanced Engineering Mathematics, 22e - Dass H.K.

"Advanced Engineering Mathematics" is written for the students of all engineering disciplines.

Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult concepts.

S.Chand Engineering Physics - M.N.Avadhanulu 2007

The book is designed to serve as a textbook for an introductory course in physics for the first year B.E. Students of Anna University, Chennai and RTM Nagpur University, Nagpur. The book is written with the distinctive objectives of providing the students a single source of material as per the syllabi and solid foundation in physics. Engineering may be broadly called applied physics, which developed itself through application of principles of basic physics. The fundamental discoveries in physics are harnessed by engineering; and in turn, engineering paved way to more discoveries in physics.

Simulation Method of Multipactor and Its Application in Satellite Microwave Components - Wanzhao Cui 2021-09-12

This book combines the experience and achievements in engineering practice of the China Academy of Space Technology, Xi'an, with a focus on the field of high-power multipactor over recent decades. It introduces the main concepts, theories, methods and latest technologies of multipactor simulation, at both the theoretical level and as a process of engineering, while providing a comprehensive introduction to the outstanding progress made in the research technology of multipactor numerical simulation in China. At the same time, a three-dimensional numerical simulation method of multipactor for typical high-power microwave components of spacecraft is introduced. This book is an essential volume for engineers in the field of high-power microwave technology. It can also be used as a reference for researchers in related fields, or as a teaching reference book for graduate students majoring in Astronautics at colleges and universities.

Engineering Physics - Hitendra K. Malik 2009

21st Century Nanoscience - A Handbook - Klaus D. Sattler 2020-11-26

21st Century Nanoscience - A Handbook: Nanophotonics, Nanoelectronics, and Nanoplasmonics (Volume 6) will be the most comprehensive, up-to-date large reference work for the field of nanoscience. Handbook of Nanophysics by the same editor published in the fall of 2010 and was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics.

This follow-up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010. It goes well beyond the physics as warranted by recent developments in the field. This sixth volume in a ten-volume set covers nanophotonics, nanoelectronics, and nanoplasmonics. Key Features: Provides the most comprehensive, up-to-date large reference work for the field. Chapters written by international experts in the field. Emphasises presentation and real results and applications. This handbook distinguishes itself from other works by its breadth of coverage, readability and timely topics. The intended readership is very broad, from students and instructors to engineers, physicists, chemists, biologists, biomedical researchers, industry professionals, governmental scientists, and others whose work is impacted by nanotechnology. It will be an indispensable resource in academic, government, and industry libraries worldwide. The fields impacted by nanophysics extend from materials science and engineering to biotechnology, biomedical engineering, medicine, electrical engineering, pharmaceutical science, computer technology, aerospace engineering, mechanical engineering, food science, and beyond.

VLSI, Microwave and Wireless Technologies - Brijesh Mishra

This book comprises the proceedings of the International Conference on VLSI & Microwave and Wireless Technologies (ICVMWT-2021). The book includes peer-reviewed papers on the core technological developments in emerging fields like wireless communication, RF microwave/radar, VLSI, optical communication, etc. The book will serve as a valuable reference resource for academics and researchers across the globe.

Engineering Physics - D. K. Bhattacharya
2015-08-20

Engineering Physics is designed as a textbook for first year undergraduate engineering students. The book comprehensively covers all relevant and important topics in a simple and lucid manner. It explains the principles as well as the applications of a given topic using numerous solved examples and self-explanatory figures.

Thin Films: Preparation, Characterization, Applications - Manuel P. Soriaga 2012-12-06

This book is about thin films; what they are, how they are prepared, how they are characterized, and what they are used for. The contents of this book not only showcase the diversity of thin films, but also reveals the commonality among the work performed in a variety of areas. The chapters in this volume are based on invited papers presented by prominent researchers in the field at a Symposium on "Thin Films: Preparation, Characterization, Applications" at the 221st National Meeting of the American Chemical Society held in San Diego, California. The coverage of the symposium was extensive; topics ranged from highly-ordered metal adlayers on well-defined electrode surfaces to bio-organic films on non-metallic nanoparticles. An objective of this book is for the readers to be able to draw from the experience and results of others in order to improve and expand the understanding of the science and technology of their own thin films systems.

Recent Advances in Computational Mechanics and Simulations - Sandip Kumar Saha 2020-11-13

This volume presents selected papers from the 7th International Congress on Computational Mechanics and Simulation held at IIT Mandi, India. The papers discuss the development of mathematical models representing physical phenomena and applying modern computing methods and simulations to analyse them. The studies cover recent advances in the fields of nano mechanics and biomechanics, simulations of multiscale and multiphysics problems, developments in solid mechanics and finite element method, advancements in computational fluid dynamics and transport phenomena, and applications of computational mechanics and techniques in emerging areas. The volume will be of interest to researchers and academics from civil engineering, mechanical engineering, aerospace engineering, materials engineering/science, physics, mathematics and other disciplines.

Intellectual Property Issues in Nanotechnology - Chetan Keswani 2020-09-08
Intellectual Property Issues in Nanotechnology focuses on the integrated approach for sustained innovation in various areas of nanotechnology.

The theme of this book draws to a great extent on the industrial and socio-legal implications of intellectual property rights for nanotechnology-based advances. The book takes a comprehensive look not only at the role of intellectual property rights in omics-based research but also at the ethical and intellectual standards and how these can be developed for sustained innovation. This book attempts to collate and organize information on current attitudes and policies in several emerging areas of nanotechnology. Adopting a unique approach, this book integrates science and business for an inside view of the industry. Peering behind the scenes, it provides a thorough analysis of the foundations of the present day industry for

students and professionals alike.

[Advances in VLSI, Communication, and Signal Processing](#) - Amit Dhawan 2022-11-05

This book comprises select peer-reviewed proceedings of the International Conference on VLSI, Communication and Signal processing (VCAS 2021). The contents focus on the latest research in different domains of electronics and communication engineering, in particular microelectronics and VLSI design, communication systems and networks, and signal and image processing. The book discusses the emerging applications of novel tools and techniques in image, video, and multimedia signal processing. This book will be useful to students, researchers, and professionals working in electronics and communication.