

# Spectrum Jntua Materials

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 Mechanics of Composite Materials, Second Edition  
 Low-Power VLSI Circuits and Systems  
 Mass Transfer-II  
 Data Mining: Concepts and Techniques  
 Embedded System Design  
 Control Systems: Theory and Applications  
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## **SALAZAR BEATRICE**

Computer Organization PHI Learning Pvt. Ltd.

This book comprises select proceedings of the international conference ETAEERE 2020, and focuses on contemporary issues in energy management and energy efficiency in the context of power systems. The contents cover modeling, simulation and optimization based studies on topics like medium voltage BTB system, cost optimization of a ring frame unit in textile industry, rectenna for RF energy harvesting, ecology and energy dimension in infrastructural designs, study of AGC in two area hydro thermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication. This book can be beneficial for students, researchers as well as industry professionals.

Mechanics of Composite Materials, Second Edition Nirali Prakashan

This updated edition includes: coverage of power-system estimation, including current developments in the field; discussion of system control, which is a key topic covering economic factors of line losses and penalty factors; and new problems and examples throughout.

Low-Power VLSI Circuits and Systems Springer Science & Business Media

The Revised Edition Of A Widely Used Book Contains Several New Topics To Make The Coverage More Comprehensive And Contemporary. \* Highlights The Ozone Hole Problem And Related Steps To Modify The Refrigeration Systems. \* The Discussion Of Vapour Compression/Absorption Systems Totally Recast With A Special Emphasis On Eco-Refrigerants. \* Application Oriented Approach Followed Throughout The Book And Energy Efficiencyemphasised. \* Several Real Life Problems Included To Illustrate The Practical Viability Of The Systems Discussed. \* Additional Examples, Diagrams And Problems Included In Each Chapter For An Easier Grasp Of The Subject.With All These Features, This Book Would Serve As A Comprehensive Text For Undergraduate Mechanical Engineering Students. Postgraduate Students And Practising Engineers Would Also Find It Very Useful.

Mass Transfer-II CRC Press

A Textbook for the students of B.Sc.(Engg.), B.E., B.Tech., AMIE and Diploma Courses. A new chapter on ""Semiconductor Fabrication Technology and Miscellaneous Semiconductor Devices"" had been included and additional self-assessment questions with answers and additional worked examples had been provided at the end of the BOOK.

Data Mining: Concepts and Techniques Springer Nature

This volume focuses on quasilinear elliptic differential equations of degenerate type, evolution variational inequalities, and multidimensional hysteresis. It serves both as a survey of results in the field, and as an introductory text for non-specialists interested in related problems.

Embedded System Design McGraw-Hill Science Engineering

The book provides a comprehensive coverage of different aspects of low power circuit synthesis at various levels of design hierarchy; starting from the layout level to the system level. For a seamless understanding of the subject, basics of MOS circuits has been introduced at transistor, gate and circuit level; followed by various low-power design methodologies, such as supply voltage scaling, switched capacitance minimization techniques and leakage power minimization approaches. The content of this book will prove useful to students, researchers, as well as practicing engineers.

Control Systems: Theory and Applications Springer

The potential application areas for polymer composites are vast. While techniques and methodologies for composites design are relatively well established, the knowledge and understanding of post-design issues lag far behind. This leads to designs and eventually composites with disappointing properties and unnecessarily high cost, thus impeding a wider industrial acceptance of polymer composites. Manufacturing of Polymer Composites completely covers pre-

and post-design issues. While the book enables students to become fully comfortable with composites as a possible materials choice, it also provides sufficient knowledge about manufacturing-related issues to permit them to avoid common pitfalls and unmanufacturable designs. The book is a fully comprehensive text covering all commercially significant materials and manufacturing techniques while at the same time discussing areas of research and development that are nearing commercial reality.

VLSI Design Springer

This book presents select proceedings of the International Conference on Advanced Lightweight Materials and Structures (ICALMS) 2020, and discusses the triad of processing, structure, and various properties of lightweight materials. It provides a well-balanced insight into materials science and mechanics of both synthetic and natural composites. The book includes topics such as nano composites for lightweight structures, impact and failure of structures, biomechanics and biomedical engineering, nanotechnology and micro-engineering, tool design and manufacture for producing lightweight components, joining techniques for lightweight structures for similar and dissimilar materials, design for manufacturing, reliability and safety, robotics, automation and control, fatigue and fracture mechanics, and friction stir welding in lightweight sandwich structures. The book also discusses latest research in composite materials and their applications in the field of aerospace, construction, wind energy, automotive, electronics and so on. Given the range of topics covered, this book can be a useful resource for beginners, researchers and professionals interested in the wide ranging applications of lightweight structures.

Mechanical Measurements John Wiley & Sons

Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

A TEXTBOOK OF ENGINEERING CHEMISTRY S. Chand Publishing

This standard text-book alongwith its companion Vol. II is designed to cover the complete syllabi of the subjects of Strength of Materials and Theory and Analysis of Structures. This is one of the most comprehensive revisions since the book was first published. As a result, this twenty-sixth edition is now organised in Thirty-one chapters of comparatively smaller in size as against 18 chapters of previous edition. At the same time the text matter is thoroughly revised, extensively enlarged, completely updated, restructured and reorganised. This book in a new form, different size and adding plenty of new matter, examples and drawings. The outline of the book is: Chapters 1 to 8 consist the study of Stresses and Strains Chapters 9 and 24 discuss the Testing of Materials Chapters 10 and 11 Shear Forces and Bending Moments Chapters 12 and 13 Properties of Lines and Areas Chapters 14 and 15 Stresses in Beams Chapters 16 and 17 Deflections Chapters 18 and 19

Analysis of Fixed and Continuous Beams Chapters 20 and 21 Composite and Reinforced Concrete Beams Chapters 22 Direct and Bending Stresses and Chapter 23 Torsion Chapters 25 Columns and Struts of Uniform Section Chapters 26 Cylindrical and Spherical Shells Chapters 27 and 28 Riveted, Bolted and Welded Joints Chapters 29, 30 and 31 consist of special topics such as Shear Centre, Unsymmetrical Bending and Bending Stresses in Curved Bars. The book within its 971 + 20 pages, it now comprise the following: \* 900 \* 600 \* 715 \* 33 Neatly drawn figures Fully illustrated solved examples Unsolved examples with answers at the end of chapters Useful tables It is hoped that this edition should prove extremely useful to students of Engineering reading for Degree Examinations of all the Universities of India, Diploma Examinations conducted by various Boards of Technical Education, Certificate Courses, as well as for the U.P.S.C., G.A.T.E., A.M.I.E. and Engineering Service Examinations. It should also prove of great interest and practical use to the practising engineers.

**Electronic Devices and Integrated Circuits** New York ; Toronto : McGraw-Hill

A practical book written for engineers who design and use antennas The author has many years of hands on experience designing antennas that were used in such applications as the Venus and Mars missions of NASA The book covers all important topics of modern antenna design for communications Numerical methods will be included but only as much as are needed for practical applications

*Composite Materials* S. Chand Publishing

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.

*Core Python Programming* Firewall Media

Probability and Statistics & Complex Variables

**Modern Antenna Design** Routledge

Praise for Core Python Programming The Complete Developer's Guide to Python New to Python? The definitive guide to Python development for experienced programmers Covers core language features thoroughly, including those found in the latest Python releases—learn more than just the syntax! Learn advanced topics such as regular expressions, networking, multithreading, GUI, Web/CGI, and Python extensions Includes brand-new material on databases, Internet clients, Java/Jython, and Microsoft Office, plus Python 2.6 and 3 Presents hundreds of code snippets, interactive examples, and practical exercises to strengthen your Python skills Python is an agile, robust, expressive, fully object-oriented, extensible, and scalable programming language. It combines the power of compiled languages with the simplicity and rapid development of scripting languages. In Core Python Programming, Second Edition, leading Python developer and trainer Wesley Chun helps you learn Python quickly and comprehensively so that you can immediately succeed with any Python project. Using practical code examples, Chun introduces all the fundamentals of Python programming: syntax, objects and memory management, data types, operators, files and I/O, functions, generators, error handling and exceptions, loops, iterators, functional programming, object-oriented programming and more. After you learn the core fundamentals of Python, he shows you what you can do with your new skills, delving into advanced topics, such as regular expressions, networking programming with sockets, multithreading, GUI development, Web/CGI programming and extending Python in C. This edition reflects major enhancements in the Python 2.x series, including 2.6 and tips for migrating to 3. It contains new chapters on database and Internet client programming, plus coverage of many new topics, including new-style classes, Java and Jython, Microsoft Office (Win32 COM Client) programming, and much more. Learn professional Python style, best practices, and good programming habits Gain a deep

understanding of Python's objects and memory model as well as its OOP features, including those found in Python's new-style classes Build more effective Web, CGI, Internet, and network and other client/server applications Learn how to develop your own GUI applications using Tkinter and other toolkits available for Python Improve the performance of your Python applications by writing extensions in C and other languages, or enhance I/O-bound applications by using multithreading Learn about Python's database API and how to use a variety of database systems with Python, including MySQL, Postgres, and SQLite Features appendices on Python 2.6 & 3, including tips on migrating to the next generation!

**PULSE AND DIGITAL CIRCUITS** Pearson Education India

This book features original papers from International Conference on Expert Clouds and Applications (ICOECA 2021), organized by GITAM School of Technology, Bangalore, India during February 18–19, 2021. It covers new research insights on artificial intelligence, big data, cloud computing, sustainability, and knowledge-based expert systems. The book discusses innovative research from all aspects including theoretical, practical, and experimental domains that pertain to the expert systems, sustainable clouds, and artificial intelligence technologies.

*Professional Ethics and Human Values* River Publishers

Aimed primarily for undergraduate students pursuing courses in VLSI design, the book emphasizes the physical understanding of underlying principles of the subject. It not only focuses on circuit design process obeying VLSI rules but also on technological aspects of Fabrication. VHDL modeling is discussed as the design engineer is expected to have good knowledge of it. Various Modeling issues of VLSI devices are focused which includes necessary device physics to the required level. With such an in-depth coverage and practical approach practising engineers can also use this as ready reference. Key features: Numerous practical examples. Questions with solutions that reflect the common doubts a beginner encounters. Device Fabrication Technology. Testing of CMOS device BiCMOS Technological issues. Industry trends. Emphasis on VHDL.

**Mechanics Of Structures Vol. I** Laxmi Publications

Electronic Devices and Circuits Composite Materials Woodhead Publishing

**Composite Materials** Elsevier

The fourth edition of Probability, Random Variables and Stochastic Processes has been updated significantly from the previous edition, and it now includes co-author S. Unnikrishna Pillai of Polytechnic University. The book is intended for a senior/graduate level course in probability and is aimed at students in electrical engineering, math, and physics departments. The authors' approach is to develop the subject of probability theory and stochastic processes as a deductive discipline and to illustrate the theory with basic applications of engineering interest. Approximately 1/3 of the text is new material—this material maintains the style and spirit of previous editions. In order to bridge the gap between concepts and applications, a number of additional examples have been added for further clarity, as well as several new topics.

**Probability and Statistics & Complex Variables** McGraw-Hill College

This authoritative book, highly regarded for its intellectual quality and contributions provides a solid foundation and life-long reference for anyone studying the most important methods of modern signal and system analysis. The major changes of the revision are reorganization of chapter material and the addition of a much wider range of difficulties.

*Data Communications and Networking* S. Chand Publishing

This book introduces a modern approach to embedded system design, presenting software design and hardware design in a unified manner. It covers trends and challenges, introduces the design and use of single-purpose processors ("hardware") and general-purpose processors ("software"), describes memories and buses, illustrates hardware/software tradeoffs using a digital camera example, and discusses advanced computation models, controls systems, chip technologies, and modern design tools. For courses found in EE, CS and other engineering departments.

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