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Information Processing and  
Management Springer Nature  
This textbook introduces  
electrical engineering students  
to the most relevant concepts  
and techniques in three major

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areas today in power system engineering, namely analysis, security and deregulation. The book carefully integrates theory and practical applications. It emphasizes power flow analysis, details analysis problems in systems with fault conditions, and discusses transient stability problems as well. In addition, students can acquire software development skills in MATLAB and in the usage of state-of-the-art software tools such as Power World Simulator (PWS) and Siemens PSS/E. In any energy management/operations control centre, the knowledge of contingency analysis, state

estimation and optimal power flow is of utmost importance. Part 2 of the book provides comprehensive coverage of these topics. The key issues in electricity deregulation and restructuring of power systems such as Transmission Pricing, Available Transfer Capability (ATC), and pricing methods in the context of Indian scenario are discussed in detail in Part 3 of the book. The book is interspersed with problems for a sound understanding of various aspects of power systems. The questions at the end of each chapter are provided to reinforce the

knowledge of students as well as prepare them from the examination point of view. The book will be useful to both the undergraduate students of electrical engineering and postgraduate students of power engineering and power management in several courses such as Power System Analysis, Electricity Deregulation, Power System Security, Restructured Power Systems, as well as laboratory courses in Power System Simulation. [Cloud Computing](https://www.lulu.com/en/author/Cloud-Computing) Lulu.com Innovation, in economic activity, in managerial concepts and in engineering design, results from

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creative activities, entrepreneurial strategies and the business climate. Innovation leads to technological, organizational and commercial changes, due to the relationships between enterprises, public institutions and civil society organizations. These innovation networks create new knowledge and contribute to the dissemination of new socio-economic and technological models, through new production and marketing methods. Innovation Economics, Engineering and Management Handbook 2 is the second of the two

volumes that comprise this book. The main objectives across both volumes are to study the innovation processes in today's information and knowledge society; to analyze how links between research and business have intensified; and to discuss the methods by which innovation emerges and is managed by firms, not only from a local perspective but also a global one. The studies presented in these two volumes contribute toward an understanding of the systemic nature of innovations and enable reflection on their potential

applications, in order to think about the meaning of growth and prosperity  
Smart Cities New Riders Publishing

This book is a collection of papers from international experts presented at International Conference on NextGen Electronic Technologies (ICNETS2-2016). ICNETS2 encompassed six symposia covering all aspects of electronics and communications domains, including relevant nano/micro materials and devices. Presenting recent

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research on wireless communication networks and Internet of Things, the book will prove useful to researchers, professionals and students working in the core areas of electronics and their applications, especially in signal processing, embedded systems and networking.

**Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society**

Cambridge University Press  
This book covers the fundamental aspects and the application of electrochemical

impedance spectroscopy (EIS), with emphasis on a step-by-step procedure for mechanistic analysis of data. It enables the reader to learn the EIS technique, correctly acquire data from a system of interest, and effectively interpret the same. Detailed illustrations of how to validate the impedance spectra, use equivalent circuit analysis, and identify the reaction mechanism from the impedance spectra are given, supported by derivations and examples. MATLAB® programs for generating EIS data under various conditions are provided along with free

online video lectures to enable easier learning. Features:  
Covers experimental details and nuances, data validation method, and two types of analysis – using circuit analogy and mechanistic analysis  
Details observations such as inductive loops and negative resistances  
Includes a dedicated chapter on an emerging technique (Nonlinear EIS), including code in the supplementary material illustrating simulations  
Discusses diffusion, constant phase element, porous electrodes, and films  
Contains exercise problems, MATLAB

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codes, PPT slide, and illustrative examples This book is aimed at senior undergraduates and advanced graduates in chemical engineering, analytical chemistry, electrochemistry, and spectroscopy.

*A DIY Guide to Telemedicine for Clinicians* John Wiley & Sons

This book offers a comprehensive review of the latest advances in developing functional electrospun nanofibers for energy and environmental applications, which

include fuel cells, lithium-ion batteries, solar cells, supercapacitors, energy storage materials, sensors, filtration materials, protective clothing, catalysis, structurally-colored fibers, oil spill cleanup, self-cleaning materials, adsorbents, and electromagnetic shielding. This book is aimed at both newcomers and experienced researchers in the field of nanomaterials, especially those who are interested in addressing energy-

related and environmental problems with the help of electrospun nanofibers. Bin Ding, PhD, and Jianyong Yu, PhD, are both Professors at the College of Materials Science and Engineering, Donghua University, China. *Aerospace America* McGraw-Hill Science, Engineering & Mathematics *Physics For Engineers Is A Textbook For Students Studying A Course In Engineering.* This Book Has Been Written According To

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The Syllabi Prescribed By Jawaharlal Nehru Technological University (Jntu), Hyderabad-Engineering Physics Syllabus 2002-2003 (Onwards). But It Can Be Profitably Used By The Students Of Other Indian Universities As Well. The Purpose Of The Book Is To Present The Principles And Concepts Of Physics As Relevant To An Engineer. Some Of The Salient Features Of The Book Are: \* Lucid Style \* Clarity In The Presentation Of Concepts \* Contains

Numerous Problems And Solved Examples \* Has More Than 300 Figures. Applied Engineering Sciences CRC Press In the United States there are several thousand devices containing high-activity radiation sources licensed for use in areas ranging from medical uses such as cancer therapy to safety uses such as testing of structures and industrial equipment. Those radiation

sources are licensed by the U.S. Nuclear Regulatory Commission and state agencies. Concerns have been raised about the safety and security of the radiation sources, particularly amid fears that they could be used to create dirty bombs, or radiological dispersal device (RDD). In response to a request from Congress, the U.S. Nuclear Regulatory Commission asked the

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National Research Committee found that alternatives. The Council to conduct a replacements of most committee further study to review the sources are possible, recommends that uses of high-risk it is not longer term efforts radiation sources and economically feasible be undertaken to the feasibility of in some cases. The replace other replacing them with committee recommends sources. The book lower risk that the U.S. presents a number of alternatives. The government take steps options for making study concludes that to in the near term those replacements. the U.S. government to replace *Security, Privacy, should consider radioactive cesium and Digital factors such as chloride radiation Forensics in the potential economic sources, a potential Cloud* John Wiley & consequences of "dirty bomb" Sons This book examines misuse of the ingredient used in the challenge of radiation sources some medical and accelerating into its assessments research equipment, automation, and of risk. Although the with lower-risk

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argues that countering and adapting to this challenge requires new methodological, philosophical, scientific, sociological, economic, ethical, and political perspectives that fundamentally rethink the categories of work and education. What is required is political will and social vision to

respond to the question: What is the role of education in a digital age characterized by potential mass technological unemployment? Today's technologies are beginning to cost more jobs than they create - and this trend will continue. There have been many proposed solutions

to this problem, and they invariably involve an educational vision. Yet, in a world that simply doesn't offer enough work for everyone, education is clearly not a panacea for technological unemployment. This collection presents responses to this question from a wide spectrum of disciplines,



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including but not limited to education studies, philosophy, history, politics, sociology, psychology, and economics.

Semiconductor Physics and Devices Springer Science & Business Media

This book combines medicinal and engineering knowledge to present engineering modelling applications (mainly computational, but also experimental) in the context of

facilitating a patient-centred approach to treating congenital heart disease (CHD). After introducing the basic concepts of engineering tools, it discusses modelling and the applications of engineering techniques (e.g. computational fluid dynamics, fluid-structure interaction, structural simulations, virtual surgery, advanced image analysis, 3D printing) in specific congenital heart diseases. It also offers a number of clinical case studies

describing the applications in real-life clinical practice. The final section focuses on the importance of surgical training, counselling and patient communication. Considering the unique anatomical arrangement pre/post repair in CHD, as well as the different surgical strategy and device options (e.g. stents) for interventions, a patient-specific approach is certainly warranted in this area of medicine, and

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engineering is helping improve our understanding of individual patients and their particular anatomy and physiology. To reinforce the idea of a necessary dialogue between clinicians and engineers, this book has not only been edited by two cardiologists and two bioengineers, but each chapter has been written by a clinician and an engineer, incorporating both voices in the description of state-of-the-art models for

different CHDs.

### **Engineering Economy**

Springer

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for

data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine

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learning methods:  
linear regression,  
principal component  
analysis, Gaussian  
mixture models and  
support vector  
machines. For  
students and others  
with a mathematical  
background, these  
derivations provide a  
starting point to  
machine learning  
texts. For those  
learning the  
mathematics for the  
first time, the  
methods help build  
intuition and

practical experience  
with applying  
mathematical  
concepts. Every  
chapter includes  
worked examples and  
exercises to test  
understanding.  
Programming tutorials  
are offered on the  
book's web site.  
**Education and  
Technological  
Unemployment** CRC Press  
Publisher Description  
*Materials for Solar  
Energy Conversion*  
Springer Nature  
This Current Affairs  
Monthly Capsule

December 2021 E-book  
will help you  
understand in detail  
exam-related  
important news  
including National &  
International  
Affairs, Defence,  
Sports, Person in  
News, MoU &  
Agreements, S&T,  
Awards & Honours,  
Books etc.  
**Electrospun  
Nanofibers for Energy  
and Environmental  
Applications** Springer  
Nature  
This book provides an

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interdisciplinary look at emerging trends in signal processing and biomedicine found at the intersection of healthcare, engineering, and computer science. It examines the vital role signal processing plays in enabling a new generation of technology based on big data, and looks at applications ranging from medical electronics to data

mining of electronic medical records. Topics covered include analysis of medical images, machine learning, biomedical nanosensors, wireless technologies, and instrumentation and electrical stimulation. Biomedical Signal Processing: Innovation and Applications presents tutorials and examples of successful

applications, and will appeal to a wide range of professionals, researchers, and students interested in applications of signal processing, medicine, and biology.

*Programming with Java!*  
Pearson Education  
India

This text aims to provide the fundamentals necessary to understand semiconductor device characteristics, operations and

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limitations. Quantum mechanics and quantum theory are explored, and this background helps give students a deeper understanding of the essentials of physics and semiconductors.

Physics for

Engineers Routledge

Gives examples of how to write your own Java code.

Examples from book are on CD-ROM disk.

*Radiation Source Use and Replacement*

National Academies

Press

This is a comprehensive book on infrastructure development and construction management. It is written keeping in mind the curricula of construction management programmes in India and abroad. It covers infrastructure development, the construction industry in India, financial analysis of the real estate industry in

India, economic analysis of projects, tendering and bidding, contracts and contract management, FIDIC conditions of contract, construction disputes and claims, arbitration, conciliation and dispute resolution, international construction project exports and identifying, analysing and managing construction

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project risk. Thus, this book covers most of the construction management activities that are carried out at different stages of a construction project. This is an essential book for students of construction management, construction professionals, academicians and researchers.

*Biomedical Signal Processing* Springer

In a unique and systematic way, this

book discusses the security and privacy aspects of the cloud, and the relevant cloud forensics. Cloud computing is an emerging yet revolutionary technology that has been changing the way people live and work. However, with the continuous growth of cloud computing and related services, security and privacy has become a critical issue. Written by some of the top experts in the field, this book specifically discusses

security and privacy of the cloud, as well as the digital forensics of cloud data, applications, and services. The first half of the book enables readers to have a comprehensive understanding and background of cloud security, which will help them through the digital investigation guidance and recommendations found in the second half of the book. Part One of Security, Privacy and Digital Forensics in the Cloud covers cloud

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infrastructure security; confidentiality of data; access control in cloud IaaS; cloud security and privacy management; hacking and countermeasures; risk management and disaster recovery; auditing and compliance; and security as a service (SaaS). Part Two addresses cloud forensics - model, challenges, and approaches; cyberterrorism in the cloud; digital forensic process and model in the cloud; data acquisition; digital evidence management, presentation, and court preparation; analysis of digital evidence; and forensics as a service (FaaS). Thoroughly covers both security and privacy of cloud and digital forensics Contributions by top researchers from the U.S., the European and other countries, and professionals active in the field of information and network security, digital and computer forensics, and cloud and big data Of interest to those focused upon security and implementation, and incident management Logical, well-structured, and organized to facilitate comprehension Security, Privacy and Digital Forensics in the Cloud is an ideal book for advanced undergraduate and master's-level students in information systems, information technology, computer and network forensics, as well as computer science. It can also serve as a good reference book for security professionals,

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digital forensics practitioners and cloud service providers.

Physics For Engineers (As Per Jntu) National Academies Press

"Software Testing: Principles and Practices is a comprehensive treatise on software testing. It provides a pragmatic view of testing, addressing emerging areas like extreme testing and ad hoc testing"--Resource description page.

*SPE Drilling & Completion* Springer

It is my pleasure to

write the preface for Information Processing and Management. This book aims to bring together innovative results and new research trends in information processing, computer science and management engineering. If an information processing system is able to perform useful actions for an objective in a given domain, it is because the system knows something about that domain. The more knowledge it has, the more useful it can be to its users.

Without that knowledge, the system itself is useless. In the information systems field, there is conceptual modeling for the activity that elicits and describes the general knowledge a particular information system needs to know. The main objective of conceptual modeling is to obtain that description, which is called a conceptual schema. Conceptual schemas are written in languages called conceptual modeling languages. Conceptual



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modeling is an important part of requirements engineering, the first and most important phase in the development of an information system.

**Product-Service System Design for Sustainability** CRC Press

This book is a do-it-yourself guide for clinicians who wish to set up and run a telemedicine facility of their own. The contents

are largely based on the understanding and experience gained by the author as a practising physician, management post-graduate (capstone thesis was on telemedicine) and as a business architect for digital health systems over more than thirty years. Full of management techniques, tricks

and tips written in an easy-to-follow manner, this book provides sufficient information to clinicians looking to leverage telemedicine to augment their range of service offerings that would lead to increased levels of patient satisfaction. Various aspects related to definitions,

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technology, infrastructure, methodologies and legal issues for setting up and running telemedicine services have been dealt with to sufficient depths for the readers to help grasp the issues involved. Sections on privacy, confidentiality and data integrity have been provided to

help allay the many concerns the readers might have in those regards. Additionally, financial evaluations based on realistic-enough figures have been used to demonstrate that telemedicine is a viable option financially. Although meant primarily for medical doctors, any care provider including

institutional will be able to use the contents to plan, design, set up and run telemedicine services that they feel would benefit those who receive their care.