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format ensures that each volume in the series covers all-new topics with timely information on current topics of interest in the field. Focused coverage offers just the right amount of depth — often fewer than 10 pages in a chapter — which makes the material easier to access and easier to understand. General taxon-based format covers all terrestrial vertebrate taxa plus selected

topics on aquatic and invertebrate taxa. Updated information from the Zoological Information Management System (ZIMS) includes records from their growing database for 2.3 million animals (374,000 living) and 23,000 taxa, which can serve as a basis for new research. Expert, global contributors include authors from the U.S. and 25 other countries, each representing

trends in their part of the world, and each focusing on the latest research and clinical management of captive and free-ranging wild animals.

### **Electrical Engineering Principles**

Technical Publications An authority from the front lines of outpatient medicine explains how to take control of a patient's visit, create an agenda for every encounter, and focus immediately and continually on

the essence of the patient's illness. Abundant examples of problem-patients, potential disasters, and symptoms enable the reader to make the most of their limited time. Offers hints, tips, and tricks on patient management to facilitate efficient, effective care. Presents non-conventional techniques such as combining history and physical, remaining close to the patient for the

whole visit, artfully interrupting, and planning disposition at outset. Features abundant examples of problem-patients, potential disasters, and symptoms. Provides the technique and strategy needed to revitalize and revamp a medical practice. *Intelligent Computing Techniques for Smart Energy Systems* Cuvillier Verlag This book is a collection of papers

presented at the International Conference on Intelligent Computing, Information and Control Systems (ICICCS 2020). It encompasses various research works that help to develop and advance the next-generation intelligent computing and control systems. The book integrates the computational intelligence and intelligent control systems to provide a

powerful methodology for a wide range of data analytics issues in industries and societal applications. The book also presents the new algorithms and methodologies for promoting advances in common intelligent computing and control methodologies including evolutionary computation, artificial life, virtual infrastructures, fuzzy logic, artificial immune systems,

neural networks and various neuro-hybrid methodologies. This book is pragmatic for researchers, academicians and students dealing with mathematical intransigent problems. **Building Climate Resilience in Agriculture** Cengage Learning Mechanics of Aircraft Structures, Second Edition is the revised update of the original bestselling textbook about aerospace

engineering. This book covers the materials and analysis tools used for aircraft structural design and mechanics in the same easy to understand manner. The new edition focuses on three levels of coverage driven by recent advances in industry: the increase in the use of commercial finite element codes require an improved capability in students to formulate the problem and develop a

judgement of the accuracy of the numerical results; the focus on fracture mechanics as a tool in studying damage tolerance and durability has made it necessary to introduce students at the undergraduate level to this subject; a new class of materials including advanced composites, are very different from the traditional metallic materials, requiring

students and practitioners to understand the advantages the new materials make possible. This new edition will provide more homework problems for each chapter, more examples, and more details in some of the derivations. Aquananotech nology Springer Nature The new edition of POWER SYSTEM ANALYSIS AND DESIGN provides students with

an introduction to the basic concepts of power systems along with tools to aid them in applying these skills to real world situations. Physical concepts are highlighted while also giving necessary attention to mathematical techniques. Both theory and modeling are developed from simple beginnings so that they can be readily extended to new and complex situations. The

authors of Electrical Electric Power  
incorporate Energy by the Transmission  
new tools and same author and  
material to aid cover almost Distribution is  
students with six to seven a  
design issues courses comprehensive  
and reflect offered by e text,  
recent trends various designed for  
in the field. universities undergraduat  
Important under e courses in  
Notice: Media Electrical and power  
content Electronics systems and  
referenced Engineering transmission  
within the curriculum. and  
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description or combination part of the  
the product has proved electrical  
text may not highly engineering  
be available in successful for curriculum,  
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Book: Power Grid, elementary  
Electrical NHPC, etc. courses in  
power system Power System electric power  
together with Analysis and transmission  
Generation, Design and  
Distribution Age distribution.  
and utilization International Written in a

simple, easy-to-understand manner, this book introduces the reader to electrical, mechanical and economic aspects of the design and construction of electric power transmission and distribution systems.

**Innovative Approaches for Nanobiotechnology in Healthcare Systems**

Elsevier Health Sciences  
Drs. Christopher P. Crum, Marisa R. Nucci, and

Kenneth R. Lee help you diagnose neoplastic and non-neoplastic lesions of the female reproductive tract with their comprehensive update of Diagnostic Gynecologic and Obstetric Pathology. This 2nd Edition provides all of the latest guidance needed to accurately evaluate pathologic features and morphologic patterns. With 650+ new color images, an appendix with algorithms for

the use of biomarkers, key points, diagnostic pearls, and more... this title is a must-have for today's pathologist. Find distinct diagnostic/differential diagnostic criteria for any potential obstetric/gynecologic specimen encountered in practice. Integrate exfoliative cytology, immunohistochemistry, and molecular/genetic testing together with findings gleaned from the traditional



open surgical biopsy. Examine the cytologic features of specimens taken from the uterine cervix and corpus, following the Bethesda classification of these lesions. View more than 2,250 full-color photographs and photomicrographs, ideal for side-by-side comparison to the specimens seen in the laboratory. Make better decisions regarding complex pregnancy

situations with a new chapter devoted to the "Placental Correlates of Unanticipated Fetal Death." Experience easier reference with key points and diagnostic pearls at the end of each chapter, and a new appendix on algorithms for the use of biomarkers. Update your cancer assessment skills with the restructured section on pelvic epithelial malignancies, including a new chapter on "Assessing Pelvic Cancer

Risk and Intercepting Early Malignancy." Gain the professional insights of new co-editor Dr. Marissa Nucci, an associate professor in pathology at the Harvard Medical School. *Book Review Index* Elsevier Health Sciences This best-selling book provides you with a comprehensive guide to the diagnostic applications of exfoliative and aspiration cytology. The book takes a

systemic approach and covers the recognized normal and abnormal cytological findings encountered in a particular organ. Appropriate histopathological correlations and a consideration of the possible differential diagnosis accompany the cytological findings. The book is lavishly illustrated, making it the perfect practical resource for daily reference in

the laboratory. Provides an accessible guide to diagnostic investigation and screening. Includes a summary of major diagnostic criteria and discusses the pitfalls and limitations of cytology. Utilizes a consistent chapter structure to make finding the answers you need quick and easy. Provides updates to crucial chapters to keep you on top of the latest diagnosis and

techniques. Incorporates differential diagnosis tables for easy comparison/contrast of diagnoses. Offers more than 1800 full-color images depicting a full range of normal and abnormal findings. Discusses new concepts on molecular basis of neoplasia. Explores the role of cytogenetics in cancer development. **Diagnostic Gynecologic and Obstetric Pathology E-Book** IGI

Global This book is intended to serve as a textbook for BE., B. Tech, students of Electrical, Electronics, Computer, Instrumentation, Control and communication Engineering. It will also serve as a text reference for the students of diploma in Engineering. AMIE, GATE, UPSC Engineering services, IAS candidate would also find the book extremely useful. Subject matter in each chapter developed	systematically from first principles. Written in a very simple language. Simple and clear explanation of concepts. Large number of carefully selected worked examples. Most simplified methods used. Step-by-step procedures given for solving problems. Ideally suited for self-study. <b>Urban Drainage</b> Elsevier Health Sciences The Electrical Engineer's	Handbook is an invaluable reference source for all practicing electrical engineers and students. Encompassing 79 chapters, this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students. This text will most likely be the engineer's first choice in looking for a solution; extensive, complete references to other sources are provided throughout.
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No other book has the breadth and depth of coverage available here. This is a must-have for all practitioners and students! The Electrical Engineer's Handbook provides the most up-to-date information in: Circuits and Networks, Electric Power Systems, Electronics, Computer-Aided Design and Optimization, VLSI Systems, Signal Processing, Digital Systems and Computer

Engineering, Digital Communication and Communication Networks, Electromagnetics and Control and Systems. About the Editor-in-Chief... Wai-Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago. He has extensive experience in education and industry and is very active professionally in the fields of

circuits and systems. He was Editor-in-Chief of the IEEE Transactions on Circuits and Systems, Series I and II, President of the IEEE Circuits and Systems Society and is the Founding Editor and Editor-in-Chief of the Journal of Circuits, Systems and Computers. He is the recipient of the Golden Jubilee Medal, the Education Award, and the Meritorious Service Award from the IEEE Circuits and

Systems Society, and the Third Millennium Medal from the IEEE. Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science. \* 77 chapters encompass the entire field of electrical engineering. \* THOUSANDS of valuable figures, tables, formulas, and definitions. \* Extensive bibliographic references. *Proceedings of International Conference on*

*Intelligent Computing, Information and Control Systems* Anchor Canada Aquananotech nology: Applications of Nanomaterials for Water Purification focuses on the impacts of, and opportunities for, the application of nanotechnology to enhance water quality and the societal concerns surrounding the widespread use of nanotechnology in the water arena.

Sections cover the use of nano-sensors for the detection of water pollutants, the control of waterborne pathogens, and the use of nano-biochar coal fly composites for phytoremdtion s wastewater pollutants. In addition, the book explores the uses of nanoadsorben ts for heavy metals, dyes, Arsenic, pesticides, and water/wastew ater remediation and decontaminati on of water

from xenobiotics, bionanocomposites, metal oxides, silver, zinc nanoparticles, and carbon-based nanomaterials for wastewater treatment. In addition, the book covers the use of zerovalent iron nanomaterials and nanostructured mesoporous silica for water purification, along with nano-hydrogels to increase water efficiency and conservation. Finally, the socioeconomic

impacts and risks of aquanotechnology in ecosystems are discussed. This book provides a detailed description of the ecological applications of nanomaterials in aquatic environments, offering a cogent analysis of both major applications and challenges. Shows how a range of nanomaterial types are being used for ecological applications in aquatic environments. Explores the

effects of different types of nanomaterials on a variety of ecosystems. Assesses the major challenges of using nanotechnology to improve water quality on a mass scale. The Electrical Engineering Handbook CRC Press Vols. 8-10 of the 1965-1984 master cumulation constitute a title index. **Comprehensive Cytopathology E-Book** PHI Learning Pvt. Ltd.

This book represents an attempt to organize and unify the diverse methods of analysis of feedback control systems and presents the fundamentals explicitly and clearly. The scope of the text is such that it can be used for a two-semester course in control systems at the level of undergraduate students in any of the various branches of engineering (electrical, aeronautical,

mechanical, and chemical). Emphasis is on the development of basic theory. The text is easy to follow and contains many examples to reinforce the understanding of the theory. Several software programs have been developed in MATLAB platform for better understanding of design of control systems. Many varied problems are included at the end of each chapter. The basic

principles and fundamental concepts of feedback control systems, using the conventional frequency domain and time-domain approaches, are presented in a clearly accessible form in the first portion (chapters 1 through 10). The later portion (chapters 11 through 14) provides a thorough understanding of concepts such as state space, controllability, and observability.

Students are also acquainted with the techniques available for analysing discrete-data and nonlinear systems. The hallmark feature of this text is that it helps the reader gain a sound understanding of both modern and classical topics in control engineering. *Electrical Power System* Springer Science & Business Media  
This textbook introduces electrical

engineering students to the most relevant concepts and techniques in three major 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. *Extreme Clinic Academic Press*  
This book is showing that people can do everything in the new economic system. It means people will be organized, create and manage their own companies (co-

operatives) and own technology to manage everything in the new economic system after COVID-19. As the saying goes, "Don't let the crisis go to waste." It suggests this crisis is an opportunity and we should not let this go waste by slipping back into the same unequal and disastrous capitalist system for workers and people with corporates ruling us. People gained a good pause from the rat-

race and fast-paced world and got time to reflect on their economic life. No matter what level an individual is at, 99% of the people were affected. For most of the people, their life has turned upside down. Everyone is saying "Life will never be the same again." Then what will it be? The book provides a practical way people can organize, revive the economy and democratically participate in business

through co-operatives. The book also provides access to technology which can be used to support and manage organizations and co-operatives in different sectors to grow. It shows the way people can enhance their income, reduce their cost of living and help the underprivileged to have a decent life. *Federal Yellow Book* R. R. Bowker Urban Drainage has been

thoroughly revised and updated to reflect changes in the practice and priorities of urban drainage. New and expanded coverage includes: Sewer flooding The impact of climate change Flooding models The move towards sustainability Providing a descriptive overview of the issues involved as well as the engineering principles and analysis, it draws on real-world examples as

well as models to support and demonstrate the key issues facing engineers dealing with drainage issues. It also deals with both the design of new drainage systems and the analysis and upgrading of existing infrastructure. This is a unique and essential textbook for students of water, environmental, and public health engineering as well as a valuable resource for practising

engineers. **Modulation of Sleep by Obesity, Diabetes, Age, and Diet** Springer Nature Large quantities of water are appropriated to produce the feed annually consumed in global livestock production. Rising concerns about increasing competition for water resources and projected increase in demand for livestock products make it imperative to

look for strategies to sustainably increase livestock production, with water being one key natural resource to consider. Using a combination of different datasets, a mechanistic livestock model, and a dynamic vegetation model, we estimate the annual consumptive water use (CWU) in the global livestock sector associated with crops and fodder

cultivated on cropland and grazed biomass from pastures. *PRACTICAL LINUX PROGRAMMING: Device Drivers, Embedded Systems, and the Internet* Elsevier Innovative and fusion technologies have shown an incredible ability to improve various aspects of society, such as healthcare systems. Nanobiotechnology is one such technology that is being applied to

medical equipment and treatment approaches. Many pharmaceutical and medical companies have begun to count on medical nanotechnology due to its abundant applications and practical uses. Innovative Approaches for Nanobiotechnology in Healthcare Systems is a pivotal reference source that provides insights into a comprehensive collection of novel

techniques used for the development of safe drugs using the available resources for diverse deadly diseases. This book discusses the various platforms of nanobiotechnology that are utilized in various fields.

It is expected that bionanosystems will play a crucial role in the treatment of human diseases and the improvement of existing healthcare systems. This book is ideal for scientists, biotechnologists, microbiologist

s, medical professionals, entrepreneurs, , policymakers, researchers, academicians, and students.  
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SYSTEMS*  
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Networks and  
SystemsKHAN  
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