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Based on William Stevenson's classic, Elements of Power System Analysis, this new senior/graduate text offers a completely modern update of this popular textbook. Covering such topics as power flow, power-system stability and transmission lines, the book teaches the fundamental topics of power system analysis accompanied by logical discussions and numerous examples.

The new edition of this popular, richly illustrated textbook and atlas features a top-notch, diverse editorial team who offer you the most current information and reliable guidance on all aspects of colposcopy. They present unparalleled coverage on the full range of topics, from basic science to clinical colposcopy to the latest information on anal disease and HPV infections in adolescents. More than 800 full-color, high-quality colpophotographs highlight all the variations seen in colposcopic practice and accompanying brief highlighted text further explains every concept. The book's unique organization emphasizes the correlation among cytology, colposcopy, and histology to help you make the most accurate diagnosis Encompasses the expertise of first-class investigators and clinicians from a variety of disciplines, including family practice, obstetrics, pathology, and gynecology providing you with a wide range of options and perspectives. Presents side-by-side illustrations of colposcopy, cytology, and histology, making correlations easy to see and understand. Features relevant discussions and descriptive graphics to explore low and high-grade CIN and cancer and glandular lesions. Includes a list of key points at the end of each chapter that summarize essential information. Outlines all aspects of patient management, using practical, evidence-based algorithms for at-a-glance review. Features more than 50% new or replaced illustrations, providing high-quality visual guidance. Presents best-evidence for the latest therapeutic guidelines and treatment options, so you can make better informed decisions. Provides new chapters on anal disease and HPV infections in adolescents to keep you on the cusp of the latest techniques and practices. Discusses the pitfalls and tricks of the trade of colposcopy to help you avoid complications. Includes a DVD of 9 video clips (30 minutes of footage) of procedures offering you step-by-step instructions on performing the colposcopy.

Fungal Cell Factories for Sustainable Nanomaterials Productions and Agricultural Applications explores the mycogenic synthesis of many metal nanoparticles, including processing processes, environmental protection, and future perspectives. Nanomaterials, including silver, gold, palladium, copper, zinc, selenium, titanium dioxide, metal sulphide, cellulose, have been formed by major fungal genes, such as mushrooms, Fusarium, Trichoderma, endophytic fungi, and yeast, in addition to lichens. Understanding the exact process involved in the synthesis of nanoparticles and the effects of various factors on the reduction of metal ions can help to improve low-cost strategies for the synthesis and extraction of nanoparticles. Other sections focus on a new framework for the production of nano-antimicrobial, the use of myconanoparticles against plant diseases, post-harvest antibiotics, mycotoxin control and plant pests in addition to certain animal pathogens. Myconanomaterials are well developed with great potential and promise for advanced diagnostics, biosensors, precision farming and targeted smart delivery systems. Assesses the impact of a variety of copper-based nanostructures on agri-food sectors, addressing the most relevant knowledge gaps Explores the opportunities that myconanotechnology can provide for industrial applications Explains the major challenges of applying myconanotechnology at an industrial scale

Concise yet comprehensive, Cytology: Diagnostic Principles and Clinical Correlates is a practical guide to the diagnostic interpretation of virtually any cytological specimen you may encounter. This highly useful bench manual covers all organ systems and situations in which cytology is used, including gynecologic, non-gynecologic, and FNA samples, with an in-depth differential diagnosis discussion for all major entities. As with previous editions, the revised 5th Edition focuses on practical issues in diagnosis and the use of cytology in clinical care, making it ideal for both trainee and practicing pathologists. Uses easy-to-read, bulleted text to provide a quick review of key differen-

tial diagnoses, indications and methods, cytomorphologic features, clinical pearls, and tissue acquisition protocols for specific entities. Includes coverage of patient management in discussions of pertinent clinical features and emphasizes clinical correlation throughout. Examines the role of immunohistochemistry, flow cytometry, and molecular biology in resolving difficulties in interpretation and diagnosis. Features more than 550 full-color illustrations that provide a real-life perspective of a full range of cytologic findings. Discusses hot topics such as new diagnostic biomarkers and their utility in differential diagnosis, the latest Bethesda System classifications/terminology, new techniques, and new adjunct tests. Provides an in-depth analysis of common diagnostic pitfalls to assist with daily sign-out and reporting. Includes a video on how to perform fine needle aspiration biopsy, from the patient interview and precautions to demonstration of techniques.

This comprehensive text on control systems is designed for undergraduate students pursuing courses in electronics and communication engineering, electrical and electronics engineering, telecommunication engineering, electronics and instrumentation engineering, mechanical engineering, and biomedical engineering. Appropriate for self-study, the book will also be useful for AMIE and IETE students. Written in a student-friendly readable manner, the book, now in its Second Edition, explains the basic fundamentals and concepts of control systems in a clearly understandable form. It is a balanced survey of theory aimed to provide the students with an in-depth insight into system behaviour and control of continuous-time control systems. All the solved and unsolved problems in this book are classroom tested, designed to illustrate the topics in a clear and thorough way. NEW TO THIS EDITION• One new chapter on Digital control systems• Complete answers with figures• Root locus plots and Nyquist plots redrawn as per MATLAB output• MATLAB programs at the end of each chapter• Glossary at the end of chapters KEY FEATURES• Includes several fully worked-out examples to help students master the concepts involved. • Provides short questions with answers at the end of each chapter to help students prepare for exams confidently. • Offers fill in the blanks and objective type questions with answers at the end of each chapter to quiz students on key learning points. • Gives chapter-end review questions and problems to assist students in reinforcing their knowledge. Solution Manual is available for adopting faculty.

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. 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.

Focuses on the first control systems course of BTech, JNTU, this book helps the student prepare for further studies in modern control system design. It offers a profusion of examples on various as-

pects of study.

This book will give readers a thorough understanding of the fundamentals of power system analysis and their applications. Both the basic and advanced topics have been thoroughly explained and supported through several solved examples. Important Features of the Book: Load Flow and Optimal System Operation have been discussed in detail. Automatic Generation Control (AGC) of Isolated and Interconnected Power Systems have been discussed and explained clearly. AGC in Restructured Environment of Power System has been Introduced. Sag and Tension Analysis have been discussed in detail. Contains over 150 illustrative examples, practice problems and objective-type questions, that will assist the reader. With all these features, this is an indispensable text for graduate and postgraduate electrical engineering students. GATE, AMIE and UPSC engineering services along with practicing engineers would also find this book extremely useful

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.

Designed to help students get a solid background in structural mechanics and extensively updated to help professionals get up to speed on recent advances This Second Edition of the bestselling textbook Mechanics of Aircraft Structures combines fundamentals, an overview of new materials, and rigorous analysis tools into an excellent one-semester introductory course in structural mechanics and aerospace engineering. It's also extremely useful to practicing aerospace or mechanical engineers who want to keep abreast of new materials and recent advances. Updated and expanded, this hands-on reference covers: * Introduction to elasticity of anisotropic solids, including mechanics of composite materials and laminated structures * Stress analysis of thin-walled structures with end constraints * Elastic buckling of beam-column, plates, and thin-walled bars * Fracture mechanics as a tool in studying damage tolerance and durability Designed and structured to provide a solid foundation in structural mechanics, Mechanics of Aircraft Structures, Second Edition includes more examples, more details on some of the derivations, and more sample problems to ensure that students develop a thorough understanding of the principles.

Complete coverage of all fields of electrical engineering. The book provides workable definitions for practicing engineers, while serving as a reference and research tool for students, and offering practical information for scientists and engineers in other disciplines. Areas examined include applied electrical, microwave, control, power, and digital systems engineering, plus device electronics.

We were established in 2020 as an academic studies group. The purpose of our group is to share academic information, write academic books, and share new views and ideas. Our group, which started its activities with this mission, has become an association in 2022. The Academic Studies

Group is a group formed by faculty members from more than 20 countries. Our group consists of 800 academicians, 500 of whom are from Turkey and 300 from various countries of the world. We held our first congress together with Çağ University in May 2021. We held our second congress together with Karabuk University in October 2021. We held our third congress together with Osmaniye Korkut Ata University in May 2022. IV. The International Congress of Academic Studies (ASC-2022 / FALL) held in Poland between 3-5 November 2022, hosted by Alcide De Gasperi University of Euroregional Economy, POLAND, face-to-face and online. As the Academic Working Group, we are getting stronger with each congress. We would like to thank the organizing committee and our authors for their support at the congress. We hope to unite this cooperation under the roof of an institute or university in the coming years.

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, microbiologists, medical professionals, entrepreneurs, policymakers, researchers, academicians, and students.

About the Book: Electrical power system together with Generation, Distribution and utilization of Electrical Energy by the same author cover almost six to seven courses offered by various universities under Electrical and Electronics Engineering curriculum. Also, this combination has proved highly successful for writing competitive examinations viz. UPSC, NTPC, National Power Grid, NHPC, etc.

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.

Fowler's Current Therapy 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.

This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evi-

dence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

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.

An improved understanding of the interactions between nanoparticles and plant retorts, including their uptake, localization, and activity, could revolutionize crop production through increased disease resistance, nutrient utilization, and crop yield. This may further impact other agricultural and industrial processes that are based on plant crops. This two-volume book analyses the key processes involved in the nanoparticle delivery to plants and details the interactions between plants and nanomaterials. Potential plant nanotechnology applications for enhanced nutrient uptake, increased crop productivity and plant disease management are evaluated with careful consideration regarding safe use, social acceptance and ecological impact of these technologies. Plant Nanobionics: Volume 1, Advances in the Understanding of Nanomaterials Research and Applications begins the discussion of nanotechnology applications in plants with the characterization and nanosynthesis of various microbes and covers the mechanisms and etiology of nanostructure function in microbial cells. It focuses on the potential alteration of plant production systems through the controlled release of agrochemicals and targeted delivery of biomolecules. Industrial and medical applications are included. Volume 2 continues this discussion with a focus on biosynthesis and toxicity.

Hanan Habibzai is a well-known Afghan-British journalist who fled from Afghanistan in 2008. In 2011, he finished his education at Coventry University in the United Kingdom with a master's degree in Global Journalism. For over ten years, he reported from Afghanistan for BBC and Reuters (2002 to 2009). One of his notable assignments was to cover the invasion of Afghanistan and the fall of the Taliban regime in 2001 for international media. He also worked for Radio Free Europe from 2009 up until 2013 as a correspondent in London. He spent most of his life as a refugee, once migrated at a young age to Pakistan due to the Soviet invasion in Afghanistan and to the UK caused by the US-led invasion, for the second time. When he worked as a journalist, he visited different regions of Afghanistan and observed widespread hunger and misery of the Afghan people, especially women and children. Back in 2016, Hanan Habibzai founded Helping Orphans, a registered UK charity. He voluntarily managed and directed the organization knowing that serving humanity is a passion for him. His charity provides sustainable development projects to the families of orphans and vulnerable people in Afghanistan which he looks forward to becoming self-reliant. A world list of books in the English language.

Vols. 8-10 of the 1965-1984 master cumulation constitute a title index.

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.

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.

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.

Explore the latest power electronics principles, practices, and applications This electrical engineering guide offers comprehensive coverage of design, modeling, simulation, and control for power electronics. The book describes real-world applications for the technology and features case studies worked out in both MATLAB and Simulink. Presented in an accessible style, Power Electronics Step-by-Step: Design, Modeling, Simulation, and Control focuses on the latest technologies, such as DC-based systems, and emphasizes the averaging technique for both simulation and modeling. You will get photos, diagrams, flowcharts, graphs, equations, and tables that illustrate each topic. Circuit components Non-isolated DC/DC conversion Power analysis DC to single-phase AC conversion Single-phase AC to DC conversion Galvanic isolated DC/DC conversion Power conversion for three-phase AC Bidirectional power conversion Averaging model for simulation Dynamic modeling of DC/DC converters Regulation of voltage and current

Electrifying investigation of White House lies about the assassination of Osama bin Laden In 2011, an elite group of US Navy SEALs stormed an enclosure in the Pakistani city of Abbottabad and killed Osama bin Laden, the man the United States had begun chasing before the devastating attacks of 9/11. The news did much to boost President Obama's first term and played a major part in his reelection victory of the following year. But much of the story of that night, as presented to the world, was incomplete, or a lie. The evidence of what actually went on remains hidden. At the same time, the full story of the United States' involvement in the Syrian civil war has been kept behind a diplomatic curtain, concealed by doublespeak. It is a policy of obfuscation that has compelled the White House to turn a blind eye to Turkey's involvement in supporting ISIS and its predecessors in Syria. This investigation, which began as a series of essays in the London Review of Books, has ignited a firestorm of controversy in the world media. In his introduction, Hersh asks what will be the legacy of Obama's time in office. Was it an era of "change we can believe in" or a season of lies and compromises that continued George W. Bush's misconceived War on Terror? How did he lose the confidence of the general in charge of America's forces who acted in direct contradiction to the White House? What else do we not know?

This book analyses the mass production and application of biological control products for biotic and abiotic factors affecting agricultural production. It also describes how to develop sustainable agriculture under Egyptian conditions. The book is divided into four parts covering: 1) mass production of parasitoids, insects and mite predators, 2) mass production of the microbial control agents for managing insect pests, 3) biocontrol products for plant diseases, and 4) bioproducts against abiotic factors. It discusses various methods of controlling insect pests and plant diseases in order to increase agricultural production, improve the quality of field crops and reduce the food gap by applying a range of technologies. This book helps increase our understanding and awareness of how to

produce healthy products for local consumption and utilization as well as for exports.