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**Electrical Circuits in Biomedical Engineering**

Ali Ümit Keskin 2017-05-03 This book presents a comprehensive and in-depth analysis of electrical circuit theory in biomedical engineering, ideally suited as textbook for a graduate course. It contains methods and theory, but the topical focus is placed on practical applications of circuit theory, including problems, solutions and case studies. The target audience comprises graduate students and researchers and experts in electrical engineering who intend to embark on biomedical applications.

**The asbestos lie. The past and present of an industrial catastrophe**

Maria Rosselli, journalist 2014-06-24 For decades asbestos was considered an ideal substance and therefore was called ‘the mineral of the twentieth century’. Even though the fiber had already proven much earlier to cause various ailments, a real boom began in the 1950s and prospered everywhere in Europe. This book retraces the history of the Swiss asbestos cement company Eternit, investigating the strategy it developed – together with other asbestos industrialists - to prevent this carcinogen from being outlawed until, in 1999, an EU Directive was finally adopted to this end. The book also reviews the struggle of the asbestos workers and their families to gain official recognition of, and compensation for, the harm suffered.

Endotherapy in Bilepapenteric Diseases: ERCP Meets EUS Maximiliano Mutignani 2020-06-26 This volume presents the technical and cultural state of the art of two of the riskiest, most complex and operator-dependent digestive operative techniques: endoscopic retrograde cholangiopancreatography (ERCP) and endoscopic ultrasonography (EUS). The authors compare old and new techniques, shedding light on the most recent and innovative scientific findings, including those in the field of anatomic pathology and molecular biology considered relevant for the analysis of tissue samples collected during EUS. In view of the technical difficulties specific to these techniques, the book also offers access to online-videos and numerous images, making it a valuable resource both for physicians approaching these techniques for the first time as well as for those already using them. Organized into 7 sections, it describes in detail all techniques related to ERCP/EUS, together with any specific technical equipment required. It also presents a new paradigm based on the latest results in the areas of prevention, diagnosis and management of the most common complications. Clinical outcomes presented in international literature, as well as algorithms – both based on scientific evidence and expert findings - are illustrated and compared to alternative treatments.

**Therapeutic Endoscopy in the Gastrointestinal Tract**

Georg Kähler 2017-11-20 This book, written by experts on gastroenterology and digestive surgery, provides comprehensive and detailed descriptions of all established and newly developed interventional endoscopic procedures. For each procedure, it addresses: indications; staff, instrumental and technical requirements; and results, potential complications and their management. Also featuring a wealth of images and drawings of the procedures, as well as helpful hints and tips, the book offers a valuable resource for young and seasoned internists and surgeons alike, as well as endoscopy specialists in other fields.

**Criminal Justice**

Peter Joyce 2013-01-17 This book provides a comprehensive, up to date and detailed introduction to the criminal justice system for students and practitioners needing to know about this. It assesses the main theories concerned with the causes of crime (including white collar and corporate crime), and provides a detailed account and analysis of the response of the state to crime in England and Wales. It discusses the operation of all key agencies, including the police, probation and prison services, and the legal and youth justice systems. It also examines a number of contemporary issues affecting the criminal justice system, including the partnership approach to crime prevention, the implementation of the Macpherson report and the issue of race and crime more generally; and examines a number of important new areas within criminal justice, such as restorative justice. The book is an ideal text for students taking courses in criminal justice, or studying criminal justice as a component of a broader course in criminology or the social sciences more generally. It has a wide range of student friendly features, including questions and answers, case studies, chapter summaries, website resource guide, glossary of key terms, and is written in a highly accessible manner.

**Springer Handbook of Automation**

Shimon Y. Nof 2009-07-16 This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field.

**AmGov**

Christine Barbour 2019-02-12 All the fundamentals. No fluff. Learn more with less! A truly revolutionary American Government textbook, Christine Barbour’s AmGov: Long Story Short, responds to the needs of today’s students and instructors through brevity and accessibility. The succinct ten chapters are separated by tabs that make it easy to skim, flip, revisit, reorient, and return to content quickly. Reading aids like bullets, annotations and arrows walk students through important facts and break up the material in short, engaging bites of information that highlight not only what is important but why it’s important. Though brief, this core book is still robust enough to provide everything that students need to be successful in their American Government course. Whether for the on-the-go student who doesn’t have time to read and digest a lengthy chapter, or the instructor who wants a book that will stay out of their way and leave room for plenty of supplementary reading and activities, AmGov provides a perfectly simplified foundation for a successful American Government course.

**Endoscopic Oncology**

Douglas O. Faigel 2007-11-06 Table 1 Cancer is the second most common cause of death in Americans (see www.cdc.gov). Colorectal cancer kills more Incidence and Mortality of the Five Most Common Gastrointestinal Malignancies Americans than any other malignancy except for lung cancer. The incidences and mortalities of the major gastrointestinal a Site Incidence Mortality (GI) malignancies are shown in Table 1. Taken as a group, the five most common GI malignancies account for more cancers Colorectum 53.9 21.6 and more cancer deaths than for any other site. Pancreas 11.1 10.6 Stomach 9.1 4.9 Flexible endoscopy has given physicians unprecedented Liver/intrahepatic bile ducts 6.2 4.4 access to the GI tract. The ability to endoscopically visu- Esophagus 4.5 4.3 alize, biopsy, and apply therapy has had implications for the management of all the major GI malignancies. Accepted Data from SEER database 1992-2002 (www.seer.cancer.gov). applications of endoscopy range from detection of mal-a Per 100,000.

**Clinical Gastrointestinal Endoscopy**

Gregory G. Ginsberg 2005 This outstanding new resource comprehensively covers the use of endoscopic procedures to diagnose and treat the full range of gastrointestinal disorders, from the proven to the most cutting-edge techniques. Internationally respected experts-pioneers in the field-bring you an extremely readable, yet complete text, stunning clinical photographs, clear step-by-step illustrations, and much more. You’ll also find unique algorithms that offer protocols for patient care and tables that present key data. In addition, a bonus DVD that provides access to clinical photographs and videos of endoscopic procedures. Opens with a section that offers crucial, practical information on equipment and suite management. Provides coverage on how to diagnose and treat every condition endoscopically, including strictures · enteral access · GERD · inflammatory, infectious, and functional disorders of the digestive tract · neoplasms · and ERCP and EUS. Presents information on cutting-edge...
techniques that may become part of daily practice. · Includes many stunning endoscopic photographs and step-by-step illustrations. · Comes with a bonus DVD that shows you real-time, expert demonstrations of techniques. · Features the expertise of internationally respected authorities and pioneers in the field. With 91 additional contributing experts.

Foliate in Health and Disease Lynn B. Bailey 1994-12-01
Ethnicity, Nationalism and Violence Christian P. Scherrer 2017-11-22
This title was first published in 2003. Meticulously documenting Intra-state violence and the responses to it from a global perspective, this volume deals with a core element of future global governance within its historical and sociological context. It provides a striking analysis of the prevention of violence and resolving conflict, elaborating on the role that key regional and international organizations (e.g. UN, OSCE, COE, OAU- AU and OSA) have or should have in the prevention of violence and terrorism, as well as the indications for state violence and the responses to it from a global perspective. This is a first-rate contribution to the understanding of the conditions under which the use of violence and terrorism as instruments of state policy is likely to occur or is likely to be prevented. This is an excellent book for the generation of new ideas and the elaboration of new strategies to prevent and manage violent conflicts and terrorism.

Forging the Shield Donald A. Carter 2015
This illustrated book that describes in detail the various techniques of minimally invasive thyroidectomy evolved over time and is a critical element in telling the story of the US Army in Europe.

The next century should be equally impressive, and with the various factors, good operating technique and correct preoperative preparation consideration of the contraindications, technical and organizational aspects where technology that could transform health is being developed, including cybernetics, regenerative medicine, nanotechnology and genetically tailored treatments. Although many of these advances may not be ready to treat humans for many years, some of them may someday profoundly change—and extend—our lives. In "Bionic Connections," for example, D. Kacy Cullen and Douglas Smith discuss synthetic limbs that function as well (or better) than our own. Echoes of the 1966 film Fantastic Voyage abound in "Nanomedicine Targets Cancer" by James Heath, Mark Davis and Leroy Hood, who examine how miniaturized tools can both measure the molecular interactions of disease and deliver targeted therapies. Several articles discuss different approaches for regeneration, including "Grow Your Own Eye," in which author Yoshiki Sasai illustrates how his lab successfully grew a retina from stem cells to "A Sweet Solution for Replacing Organs," in which Katherine Harmon describes how a speaker at a recent TED talk used a 3-D printer to create a kidney. A century from now, will the sight of an amputee be a rarity, with cybernetic limbs controlled by thought and nearly indistinguishable from the biological ones? Perhaps most people will have their genomes read for indications of future disease and take steps to prevent it— or even to cure inherited disorders. Will we replace some drugs with tiny machines, fanning out inside the body to repair damage? As exciting as these possibilities are to extend both the length and quality of life, immortality - or at least agelessness - may be forever out of our reach. As Thomas Kirkwood notes in his piece, "Why Can’t We Live Forever?" death might be the price we pay for our complex biology. Even so, the doctors of a century past would surely be impressed by what medical science has accomplished in the past hundred years: antibiotics, organ transplants and the elimination of smallpox, to name but a few. The next century should be equally impressive, and with the various types of new technologies on the horizon, many of us have a good chance of seeing it happen.

Manual of Spine Surgery Uwe Vieweg 2012-10-23
The success of any spinal operation depends on good definition of the indications, collaboration of the contraindications, technical and organizational factors, good operating technique and correct preoperative preparation and positioning of the patient. These points are presented in this book as clearly as possible and are illustrated with detailed high quality artwork.

Commerce Business Daily 1998-10
Forging the Shield Donald A. Carter 2015
This illustrated book that includes tables, charts, and maps primarily discusses the role of USAREUR (US Army Europe) in rearming and training the new German Army which was perhaps the Army’s single greatest contribution toward maintaining security in Western Europe. Likewise, the relationship between American soldiers and their French and West German hosts evolved over time and is a critical element in telling the story of the US Army in Europe.

Minimally Invasive Thyroidectomy Dimitrios Linos 2012-04-18
This book describes in detail the various techniques of minimally invasive thyroidectomy that have emerged in recent years and presents the new supportive equipment, including intraoperative monitoring and energy devices. In addition, the basic preoperative techniques that are a prerequisite to successful thyroidectomy are covered, and individual chapters are devoted to complications, outcomes, and post-thyroidectomy quality of life. Important related topics are also discussed, including guidelines for managing papillary and medullary thyroid cancer and the surgical management of metastatic lymph nodes. Both the editors and the authors are internationally renowned experts, and they include the founders of several of the techniques described. The up-to-date text is supplemented by many color pictures and medical illustrations, making the book very user-friendly and ideal for the busy surgeon or endocrinologist who is interested in the management of thyroid diseases.

The SAGES Manual on the Fundamental Use of Surgical Energy (FUSE) Liane Feldman 2012-03-07
The SAGES Manual on the Fundamental Use of Surgical Energy (FUSE) emphasizes good communication and promotes best practice for the use of electrothermal, ultrasonic, and microwave energy sources in the operating theatre. This manual describes the basic technology of energy sources in the operating room and demonstrates the correct use and indications of energy sources in clinical practice. It also addresses the potential complications, hazards, and errors in the use of surgical energy sources and evaluates the potential interactions of energy sources with other medical devices. Any healthcare professional who has ever picked up an energy device in the OR such as a “Bovie”, Ultrasonic or bipolar instrument will better understand how it works, when to apply it, and what are the possible hazards and errors in its use. The SAGES Manual on the Fundamental Use of Surgical Energy (FUSE) is the first volume of its kind to provide such guidance and will be of great value to surgeons, anesthesiologists, nurses, endoscopists, and allied health care professionals who use these devices.

Principles and Practice of Interventional Pulmonology Armin Ernst 2012-12-02
Principles and Practice of Interventional Pulmonology provides a comprehensive text covering all aspects of Interventional Pulmonology. Providing both pathophysiologic background as well as
illustrated and clear instruction on how procedures ought to be performed, this text will be of great value to interventional pulmonologists, thoracic surgeons, surgical oncologists, and interventional radiologists. A comprehensive guide to the properties, techniques, and complications of the procedures included, this book is an essential resource for all those involved in the field of pulmonary medicine.

**Foregut Surgery**

Foregut Surgery: 2011-09-23 First Edition - Winner of 2004 BMA Medical Book Competition in Gastroenterology The second edition of this well-respected textbook has been updated to reflect the latest advances in the field. The book covers the latest developments in the diagnosis and management of foregut diseases, including esophageal, gastric, and duodenal disorders. New chapters focus on the role of endoscopy in the care of individual patients, and the book includes state-of-the-art descriptions of the clinical evaluation, diagnosis, management, and treatment of esophageal, gastroesophageal reflux disease, parasophageal hernia, and morbid obesity. Written by experts in the field, chapters focus on the preoperative work-up, indications, and technical aspects of each operation. Foregut Surgery proves to be an irreplaceable resource for surgeons, gastroenterologists, medical students, and nurses who care for patients with reflux, achalasia, and morbid obesity.

**Endoscopic Surgery**

Endoscopic Surgery: 2011-09-23 First Edition - Winner of 2004 BMA Medical Book Competition in Gastroenterology This comprehensive guide to endoscopic surgery covers the latest developments in the field of endoscopy in detail. The book includes state-of-the-art descriptions of the clinical evaluation, diagnosis, management, and treatment of esophageal, gastroesophageal reflux disease, parasophageal hernia, and morbid obesity. Written by experts in the field, chapters focus on the preoperative work-up, indications, and technical aspects of each operation. Endoscopic Surgery proves to be an irreplaceable resource for surgeons, gastroenterologists, medical students, and nurses who care for patients with reflux, achalasia, and morbid obesity.

**Endoscopic Submucosal Dissection in the Colon**

Endoscopic Submucosal Dissection in the Colon: 2011-09-23 First Edition - Winner of 2004 BMA Medical Book Competition in Gastroenterology This comprehensive guide to endoscopic surgery covers the latest developments in the field of endoscopy in detail. The book includes state-of-the-art descriptions of the clinical evaluation, diagnosis, management, and treatment of esophageal, gastroesophageal reflux disease, parasophageal hernia, and morbid obesity. Written by experts in the field, chapters focus on the preoperative work-up, indications, and technical aspects of each operation. Endoscopic Surgery proves to be an irreplaceable resource for surgeons, gastroenterologists, medical students, and nurses who care for patients with reflux, achalasia, and morbid obesity.

**Practical Gastrointestinal Endoscopy**

Practical Gastrointestinal Endoscopy: 2011-09-23 First Edition - Winner of 2004 BMA Medical Book Competition in Gastroenterology This comprehensive guide to endoscopic surgery covers the latest developments in the field of endoscopy in detail. The book includes state-of-the-art descriptions of the clinical evaluation, diagnosis, management, and treatment of esophageal, gastroesophageal reflux disease, parasophageal hernia, and morbid obesity. Written by experts in the field, chapters focus on the preoperative work-up, indications, and technical aspects of each operation. Endoscopic Surgery proves to be an irreplaceable resource for surgeons, gastroenterologists, medical students, and nurses who care for patients with reflux, achalasia, and morbid obesity.

**Pelvic Ring Fractures**

Pelvic Ring Fractures: 2011-09-23 First Edition - Winner of 2004 BMA Medical Book Competition in Gastroenterology This comprehensive guide to endoscopic surgery covers the latest developments in the field of endoscopy in detail. The book includes state-of-the-art descriptions of the clinical evaluation, diagnosis, management, and treatment of esophageal, gastroesophageal reflux disease, parasophageal hernia, and morbid obesity. Written by experts in the field, chapters focus on the preoperative work-up, indications, and technical aspects of each operation. Endoscopic Surgery proves to be an irreplaceable resource for surgeons, gastroenterologists, medical students, and nurses who care for patients with reflux, achalasia, and morbid obesity.
Assist Devices Drawing on the vast experience of the authors it covers every area of medicine that impacts on colonoscopy, including virtual colonography, pathology, techniques for pediatric and adult procedures, and legal aspects concerning colonoscopy. The book is focused on patient care, and provides explanations on how to perform the procedure effectively and make the best outcome for your patients. It serves as a detailed manual of procedures, extensively illustrated with diagrams and photographs. The book includes a companion website with supplementary material: a lecture on the history of colonoscopy, interviews with famous gastroenterologists, demonstrations of techniques, and typical and unusual cases. This is an invaluable compendium on all aspects of colonoscopy, suitable for use by every grade of practitioner world-wide and an essential reference book for all establishments with an endoscopy facility. Please note: This product no longer comes with a DVD. The DVD content is now available online at http://wiley.msecotechnologies.com/wiley/BOBContent/search/1PBobConten
t.do.

Supply Chain Strategy Edward H. Frazelle 2001-10-16 High-Tech and
High-Touch Logistics Solutions for Supply Chain Challenges In today's fast-paced and customer-oriented business environment, superior supply chain performance is a prerequisite to getting and staying competitive. Supply Chain Strategy is based on world-class logistics practices in place in successful supply chain organizations, the latest academic breakthroughs in logistics system design, and the logic of logistics. It presents the proven pillars of success in logistics and supply chain management. Part of Hill's Small Business Success Series, Supply Chain Strategy is organized according to author Dr. Ed Frazelle's breakthrough logistics master planning methodology. The methodology leads to metrics, process designs, system designs, and organizational strategies for total supply chain management, total logistics management, customer response, inventory planning and management, supply, transportation, and warehousing. Concise yet complete, Dr. Frazelle's book shows how to develop a comprehensive logistics and supply chain strategy, one that will both complement and support a company's strategic objectives and long-term success. Logistics-the flow of material, information, and money between consumers and suppliers-has become a key boardroom topic. It is the subject of cover features in business publications from Wall Street Journal to BusinessWeek. Annual global logistics expenditures exceed $3.5 trillion, nearly 20 percent of the world's GDP, making logistics perhaps the last frontier for major corporations to significantly increase shareholder and customer value. And at the heart of every effort to improve organizational logistics performance? Supply chain efficiency. Supply Chain Strategy is today's most comprehensive resource for up-to-the-minute thinking and practices on developing supply chain strategies that support a company's overall objectives. Covering world-class practices and systems, taken from the files of Coca-Cola, Wal-Mart, General Electric, and other companies, it covers essential supply chain subjects including: Logistics data mining-for identifying the root cause of material and information flow problems, pinpointing opportunities for process improvements, and providing an objective basis for project-team decision making Inventory planning and managementpresents metrics, processes, and systems for forecasting, demand planning, and inventory control, yielding lower inventory levels and improved customer service Logistics information systems and Web-based logistics hlep to substitute information for inventory and work content Transportation and distributionfor connecting sourcing locations with customers at the lowest cost by, among other things, leveraging private and third-party transportation providers, and the full gamut of logistics with a focus on seven disciplines that link enterprises across the supply chain, as well as logistics activities within those enterprises Supply Chain Strategy explains and demonstrates how decision makers can use today's technology to enhance key logistics systems at every point in the supply chain, from the time an idea or product is conceived through its delivery to the final user. It describes the major steps in developing an effective, workable logistics management programme that will reduce operating expenses, minimize capital investment, and improve overall customer service and satisfaction. Immunopharmacology Manzoor M. Khan 2008-12-19 During the past decades, with the introduction of the recombinant DNA, hybridoma and transgenic technologies there has been an exponential evolution in understanding the pathogenesis, diagnosis and treatment of a large number of human diseases. The technologies are evident with the development of cytokines and monoclonal antibodies as therapeutic agents and the techniques used in gene therapy. Immunopharmacology is that area of biomedical sciences where immunology, pharmacology and pathology overlap. It concerns the pharmacological approach to the immune response in physiological as well as pathological events. This goal and objectives of this textbook are to emphasize the developments in immunology and pharmacology as they relate to the modulation of immune response. The information includes the pharmacology of cytokines, monoclonal antibodies, mechanism of action of immune-suppressive agents and their relevance in tissue transplantation, therapeutic strategies for the treatment of AIDS and the techniques employed in gene therapy. The book is intended for health care professional students and graduate students in pharmacology and immunology.

Exploring the C-SPAN Archives Robert X. Browning 2015-11-15
Exploring the C-SPAN Archives is a collection of path-breaking research studies that use video drawn from the C-SPAN Archives. The book, based on the papers presented at the November 2012 C-SPAN archives chapters that explore issues in presidential debates, minority representation, the presentation of the first ladies, stem research, and innovative ways to analyze video. The book is divided into five parts: Part 1 consists of an overview of and common scholarship using the C-SPAN Archives and how this research advances the conversation after previously published studies. Featured are the ways in which the collection is indexed and tips on how individuals can find particular materials. This section is essential for increased scholarship and pragmatic applications. Part 2 contains applied research using the video set of C-SPAN archives, which includes a look at oral histories of minority members of Congress, an analysis of presidential debates, and the presentation style of Michelle Obama. Part 3 is focused on STEM research, including concepts and contradictions in the debate over STEM initiatives, expertise and evidence in science presentations in the C-SPAN Archives, and the framing of technology issues in a C-SPAN television series, The Communicators. Part 4 presents innovative research using C-SPAN and new computer technology. Two scholars take different technical approaches to evaluate polarization and communication using audio levels and video images. Finally, in Part 5, David Caputo presents ideas on the value of massive open online courses (MOOCs) using C-SPAN and reflects on the use of C-SPAN for critical education in what he terms the "postdigital world." Additionally, Patrice Buzzanell contributes a reflective essay on the future directions of research using the C-SPAN Archives based on the essays in this volume. Immunotherapy - A Novel Facet of Modern Therapeutics Sujata P. Sawarkar 2020-12-16 This book illustrates the significance and relevance of immunotherapy in modern-day therapeutics. Focusing on the application of immunotherapy in oncology, neurodegenerative and autoimmune diseases, it discusses the drug delivery systems, and preclinical and clinical methodologies for immunotherapy-based drugs. It also comprehensively reviews various aspects of immunotherapy, such as regulatory affairs, quality control, safety, and pharmacovigilance. Further, the book discusses the in vitro validation of therapeutic strategies prior to patient application and management of immunotherapy-related side effects and presents case studies demonstrating the design and development (pre-clinical to clinical) of immunotherapy for various diseases. It also describes various design considerations and the scale-up synthesis of immunotherapeutics and screening methods. Lastly, it explores the important aspect of cost-effectiveness and rational immunotherapy strategies.

Applied Laser Medicine II. Breuer 2012-12-06 This handbook is intended for the advanced specialist and for the practitioner interested in the application of laser medicine. It provides an overview of available medical laser systems and their clinical use. The first part introduces basic laser physics, including laser-tissue interactions as well as technical equipment and particular techniques developed for medical use in connection with laser. The second part of the text covers all areas of laser application in medicine and has been written by senior specialists from different countries. The book includes about 300 line drawings, more than 100 high quality photographs, an extensive subject and author index, and an exhaustive list of references.

Recent Advances in Coloproctology John Beynon 2012-12-06 Recent Advances in Coloproctology provides a thorough overview of modern developments in the surgical treatment of disorders of the lower intestine including ulcerative colitis/severe acute colitis, Crohn's disease, carcinomas, haemorrhoids and anal incontinence. Recognizing that the surgeon does not work in isolation, the book also integrates recent progress in imaging techniques for the anal canal and rectum, and highlights medico-legal considerations in separate chapters. Aimed at
current practitioners and trainees, Recent Advances in Coloproctology discusses key concepts that will assist general surgeons and colorectal consultants in their management of patients with a broad spectrum of anorectal and colonic disorders. With a problem-oriented slant, this book is essential reading for all those with interest in coloproctology.