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Minimally Invasive Bariatric Surgery Stacy A. Brethauer 2015-03-03 The second edition of Minimally Invasive Bariatric Surgery provides a comprehensive, state-of-the-art review of this field, and it serves as a valuable resource for clinicians, surgeons and researchers with an interest in minimally invasive bariatric surgery. Additionally, the second edition includes new features that will benefit the resident, fellow, or bariatric surgeon new to the field. Specifically, each evidence-based chapter (i.e. outcomes, complications, epidemiology, etc) concludes with three or four exam questions that emphasize the salient points of the chapter and provide fellowship programs a valuable training tool and resource for their academic curriculum. These questions are either single-answer multiple choice or true/false format and the correct response with a brief explanation follows. As more emphasis is placed on completing a comprehensive curriculum and obtaining certification for bariatric training, this aspect of the book is unique and provides added value to the text. The new edition also incorporates many new or updated medical illustrations to enhance the technique chapters and provide more uniformity for the artwork throughout the book. Each of the major procedures include surgical technique, outcomes, and management of complications in separate chapters to provide an easy reference for the busy clinician preparing for a case or presentation. Another unique feature of the text is a link to video files hosted online for the relevant chapters. This video library will be of great value to the user. As the number of fellowships in laparoscopic bariatric surgery continues to increase, this updated text will provide a valuable resource for general and bariatric surgeons, laparoscopic surgeons, fellows, residents, medical students, obesity researchers, and industry representatives involved in this field.

Handbook of Principles of Organizational Behavior Edwin Locke 2011-07-15 There is a strong movement today in management to encourage management practices based on research evidence. In the first volume of this handbook, I asked experts in 39 areas of management to identify a central principle that summarized and integrated the core findings from their specialty area and then to explain this principle and give real business examples of the principle in action. I asked them to write in non-technical terms, e.g., without a lot of statistics, and almost all did so. The previous handbook proved to be quite popular, so I was asked to edit a second edition. This new edition has been expanded to 33 topics, and there are some new authors for the previously included topics. The new edition also includes: updated case examples, updated references and practical exercises at the end of each

chapter. It also includes a preface on evidence-based management. The principles for the first edition were intended to be relatively timeless, so it is no surprise that most of the principles are the same (though some chapter titles include more than one principle). This book could serve as a textbook in advanced undergraduate and in MBA courses. It could also be of use to practicing managers and not just those in Human Resource departments. Every practicing manager may not want to read the whole book, but I am willing to guarantee that every one will find at least one or more chapters that will be practically useful. In this time of economic crisis, the need for effective management practices is more acute than ever.

Intelligent Computing and Innovation on Data Science Sheng-Lung Peng 2020-05-14 This book covers both basic and high-level concepts relating to the intelligent computing paradigm and data sciences in the context of distributed computing, big data, data sciences, high-performance computing and Internet of Things. It is becoming increasingly important to develop adaptive, intelligent computing-centric, energy-aware, secure and privacy-aware systems in high-performance computing and IoT applications. In this context, the book serves as a useful guide for industry practitioners, and also offers beginners a comprehensive introduction to basic and advanced areas of intelligent computing. Further, it provides a platform for researchers, engineers, academics and industrial professionals around the globe to showcase their recent research concerning recent trends. Presenting novel ideas and stimulating interesting discussions, the book appeals to researchers and practitioners working in the field of information technology and computer science.

Advances in Plant Biopesticides Dwijendra Singh 2014-11-13 The 'Advances in Plant Biopesticides' comprises 19 chapters on different important issues of developing biopesticides from promising botanicals and its phytochemicals based on the research reviews in the area concern. The book is written by reputed scientists and professors of both developed and developing countries namely Australia, Canada, Czech Republic, Egypt, Greece, India, Kenya, Thailand, Turkey, United Kingdom, and USA represented by almost 53 contributors. The book is organized and presented in such a form that the readers can acquire and enhance their knowledge in plant biopesticide bioresources, its application in different areas to manage pests and diseases of field crops, stored products with status of exploring in Africa, non-target effects on beneficial arthropods, control of arthropods of veterinary and vectors of communicable diseases, efficacy in controlling honeybee mite pests, prospect of applying new tools to enhance the efficacy of plant

biopesticides through use of nanotechnology, most important plant derived active principle as source of biopesticides, possible mode of action of phytochemicals against arthropods, limitation, production status, consumption, formulation, registration and quality regulation of plant biopesticides and have been cited by important scientific references. Most importantly, the book also highlights a unique example for developing biopesticides based on the research on Annonaceae as potential source of plant biopesticide, exploiting phytochemicals for developing green technology for sustainable crop protection strategies to withstand climate change with example in Africa, and overview in developing insect resistance to plant biopesticides. Most of the chapter contributing authors are internationally reputed researchers and possess experiences of more than three to four decades in the area of plant biopesticides. The contributing and corresponding authors of the book - *Advances in Plant Biopesticides* proposed and identified by the editor (Dwijendra Singh) include distinguished professors and reputed scientists from different continents of the world namely MB Isman (Canada), Nadia Z Dimetry (Egypt), Zeaur R Khan (Kenya), John A Pickett (UK), Gadi VP Reddy (USA), S Gopalakrishnan (India), Anand Prakash (India), Chirantan Chattopadyay (India), Christos G Athanassiou (Greece), Philip C. Stevenson (UK), S Raguraman (India), S Ghosh (India), Mir S Mulla (USA), Apiwat Tawatsin (Thailand), Dwijendra Singh (India), K Sahayaraj (India), Suresh Walia (India), T Shivanandappa (India), Roman Pavela (Czech Republic), Errol Hasan (Australia), Ayhan Gokce (Turkey), SK Raza (India), and their colleague co-contributors. This book would certainly provide the updated knowledge to global readers on plant biopesticides as one of the important reference source and would stimulate to present and future researchers, scientists, student, teachers, entrepreneurs, and government & non-government policy makers interested to develop new & novel environmentally safe plant biopesticides world over.

Miscellaneous Invertebrates Andreas Schmidt-Rhaesa 2018-12-03 This volume of the *Handbook of Zoology* summarizes "small" groups of animals across the animal kingdom. Dicyemida and Orthonectida are enigmatic parasites, formerly united as "Mesozoa" and their position among the multicellular animals is still not known with certainty. Placozoa are small, flat marine animals which provide important information on metazoan evolution. Comb jellies (Ctenophora) are esthetically fascinating animals which cause considerable discussion about their phylogenetic position. Seisonida are closely related to rotifers and acanthocephalans. Cycliophora were discovered and described as one of the last higher taxa and surprise by their complex life cycle. Kamptozoa (= Entoprocta) are small sessile animals in the sea and sometimes also in freshwater. Arrow worms (Chaetognatha) play an important role as predators in the plankton, but they also include benthic forms. Pterobranchia and acorn worms (Enteropneusta) belong to the deuterostomia and are related to echinoderms. In particular enteropneusts play an important role in understanding deuterostome evolution. These chapters provide up to date reviews of these exiting groups with reference to the important literature and therefore serves as an important source of information.

WDM Systems and Networks Neophytos (Neo) Antoniadis 2011-12-08 *Modeling, Simulation, Design and Engineering of WDM Systems and Networks* provides readers with the basic skills, concepts, and design techniques used to begin design and engineering of optical communication systems and networks at various layers. The latest semi-analytical system simulation techniques are applied to optical WDM systems and networks, and a review of the various current areas of optical communications is presented. Simulation is mixed with experimental verification

and engineering to present the industry as well as state-of-the-art research. This contributed volume is divided into three parts, accommodating different readers interested in various types of networks and applications. The first part of the book presents modeling approaches and simulation tools mainly for the physical layer including transmission effects, devices, subsystems, and systems), whereas the second part features more engineering/design issues for various types of optical systems including ULH, access, and in-building systems. The third part of the book covers networking issues related to the design of provisioning and survivability algorithms for impairment-aware and multi-domain networks. Intended for professional scientists, company engineers, and university researchers, the text demonstrates the effectiveness of computer-aided design when it comes to network engineering and prototyping.

A Hebrew and English lexicon of the Old Testament Francis Brown 1907

Architects' Data Ernst Neufert 1991-01-15 This is an essential aid in the initial design and planning of a project. The relevant building type is located by a comprehensive index and cross reference system, a condensed commentary covers user requirements, planning criteria, basic dimensions and other considerations of function, siting aspect etc. A system of references based on an extensive bibliography supports the text. In every section plans, sections, site layouts, design details and graphs illustrated key aspects of a building type's design. Most illustrations are dimensioned or scaled - the metric system of measurement is used throughout, and the equivalent in feet/inches can easily be read either off a graphic scale on the page or from the built-in conversion table. The illustrations are international in origin and include both well know and less famous designers. *Architects Data* is primarily a handbook of building types rather than of construction techniques and details. However its treatment of components (such as doors and windows) and of spaces for building services is extremely thorough, since consideration of this data is an essential element of the planning process. The opening pages of basic data on man and his buildings cover critical subjects such as scale, drawing practice, noise, light and space for the same reason. Particular attention has also been paid to the implications of energy conservation, means of escape from fire and the needs of the elderly and the disabled.

Complications in Bariatric Surgery Diego Camacho 2018-04-26 This text focuses on the complications following bariatric surgery. The focus is on the immediate and long term complications that would be important to both the general surgeon and those surgeons with specialty experience in bariatric surgery. Sections address the nutritional deficiencies following bariatric surgery with specific attention to Roux en Y gastric bypass and pancreatico-biliary diversion as well as the correction of these deficiencies with medical intervention as well as the indications for surgical revision or reversal. The text reviews the work-up of a bariatric patient with abdominal pain including the appropriate imaging and threshold for operative intervention and the techniques to achieve optimal visualization during this difficult situation. This section focuses on the operative management of anastomotic and staple line leaks and how to definitively manage these surgical emergencies as well as achieve source control and stabilization. Later chapters focus on specific complications following bariatric surgery with specific focus on RYGB, vertical sleeve gastrectomy (VSG), biliary pancreatic diversion, and gastric band. Complications include gastric fistula, gastric staple line disruption following VSG, gastro-jejunal leak following RYGB, reflux following bariatric surgery, and failure of weight loss following bariatric

surgery. These sections are written by experts in the field of bariatrics and include evidence based medicine as well as expert opinion on the management of bariatric complications. The sections provide a review of the literature and references at the close of each section. Complications in Bariatric Surgery will serve as a resource for both the general surgeon who handles bariatric emergencies as well as the bariatric specialist.

The Indigenous World 2016 Caecilie Mikkelsen 2017-04-30 In over sixty articles and country reports, The Indigenous World 2016 provides a comprehensive update on the current situation of indigenous peoples' causes, their human rights, and reports on the most important developments in international processes of relevance to indigenous peoples during 2015. It is an indispensable guide to issues and developments that have impacted indigenous peoples worldwide. Indigenous and non-indigenous scholars and activists write the articles contained in The Indigenous World. It is edited and produced by the International Work Group for Indigenous Affairs.

Making Commercial Law through Practice 1830–1970 Ross Cranston 2021-05-27 Draws on archival research to tell the story of the nineteenth and twentieth-century development of commercial law through practice.

Remote Sensing for Archaeological Heritage Management David Cowley 2011 Remote sensing is one of the main foundations of archaeological data, underpinning knowledge and understanding of the historic environment. The volume, arising from a symposium organised by the Europae Archaeologiae Consilium (EAC) and the Aerial Archaeology Research Group (AARG), provides up to date expert statements on the methodologies, achievements and potential of remote sensing with a particular focus on archaeological heritage management. Well-established approaches and techniques are set alongside new technologies and data-sources, with discussion covering relative merits and applicability, and the need for integrated approaches to understanding and managing the landscape. Discussions cover aerial photography, both modern and historic, LiDAR, satellite imagery, multi- and hyper-spectral data, sonar and geophysical survey, addressing both terrestrial and maritime contexts. Case studies drawn from the contrasting landscapes of Europe illustrate best practice and innovative projects.

Foundations of Parasitology Gerald D. Schmidt 1977

Legislative History of the Civil Service Reform Act of 1978 1979

Natural History of the Bay Scallop James Squier Gutsell 1931

African linguistics on the prairie Jason Kandybowicz 2018-06-15 African Linguistics on the Prairie features select revised peer-reviewed papers from the 45th Annual Conference on African Linguistics, held at the University of Kansas. The articles in this volume reflect the enormous diversity of African languages, as they focus on languages from all of the major African language phyla. The articles here also reflect the many different research perspectives that frame the work of linguists in the Association for Contemporary African Linguistics. The diversity of views presented in this volume are thus indicative of the vitality of current African linguistics research. The work presented in this volume represents both descriptive and theoretical methodologies and covers fields ranging from phonetics, phonology, morphology, typology, syntax, and semantics to sociolinguistics, discourse analysis, language acquisition, computational linguistics and beyond. This broad scope and the quality of the articles contained within holds out the promise of continued advancement in linguistic research on African languages.

Drug Targets in Kinetoplastid Parasites Hemanta K. Majumder 2008-09-15 The dreaded

protozoal diseases caused by a number of Kinetoplastid parasites threaten mankind, as therapeutic tools for the treatment of most parasitic diseases are extremely limited. Development of commercially available vaccines is still far from reality, though research and trial programs continue. This book covers current research into drug therapeutics for the conditions caused by the parasites, which if viewed globally, pose an increasing threat to human health and welfare.

Advanced Nutrition and Dietetics in Obesity Catherine Hankey 2018-02-05 This addition to the British Dietetic Association Advanced Nutrition and Dietetics book series is written for clinicians and researchers who work with any aspect of obesity and its comorbid conditions. Featuring contributions from leading researchers and practitioners from around the globe Advanced Nutrition and Dietetics in Obesity offers a uniquely international perspective on what has become a worldwide public health crisis. Chapters cover a full range of new ideas and research on the underlying drivers of obesity in populations including discussions on the genetic and clinical aspects of obesity, along with expert recommendations on how to effectively manage and prevent this chronic and persistent disease. Providing a comprehensive overview of the key literature in this field, Advanced Nutrition and Dietetics in Obesity is an invaluable resource for all those whose work should or does embrace any aspect of obesity.

Dietary Intake and Type 2 Diabetes Omorogieva Ojo 2019-12-05 The prevalence of diabetes is on the increase in the UK and worldwide, partly due to changes in lifestyle which predispose individuals to overweight and obesity. It is estimated that about 90% of the currently diagnosed adults have type 2 diabetes, and based on the World Health Organisation (WHO) report, about 422 million adults were living with diabetes in 2014 compared with 108 million in 1980; this condition caused about 1.5 million deaths in 2012. In the United States of America, it is estimated that about 30.3 million adults are living with diabetes, with a further 1.5 million new diabetes cases diagnosed every year, representing an increasing prevalence of this condition. Diabetes represents a major public health challenge, despite advances in technology and the pharmaceutical industry. These problems may be in the form of acute or long-term complications. Therefore, in order to attenuate the problems of diabetes, management strategies usually include lifestyle changes such as increased physical activity and dietary interventions. Studies which evaluate the role of nutrition in the management of type 2 diabetes often involve human and animal models as these approaches enable us to have a broader and more in-depth understanding of the condition. In some cases, diabetes may co-exist with other conditions, such as stroke, and these may present unique challenges with regard to nutritional interventions. This Special Issue aims to evaluate the risk factors associated with type 2 diabetes and the role of the diet in the management of people with this condition. This evidence is drawn from both human and animal studies.

The Secret Lover Julia London 2008-08-26 Julia London captivated readers and critics alike with her acclaimed Rogues of Regent Street trilogy. Now the nationally bestselling author Romantic Times calls "a rising star" returns with the passionate story of a man and a woman pursued by secrets, shadowed by scandal, and surprised by love... Eight years after fleeing England in the wake of a terrible scandal, Sophie Dane is no longer the trusting debutante betrayed by love. Now as companion to a worldly French widow, she returns to London where her arrival instantly sets tongues wagging...and attracts the roving eye of aristocratic Trevor Hamilton. But it is his mysterious brother, Caleb, in whom Sophie senses a kindred soul—and who captivates her as no other man has before. Reared on the continent,

Caleb has come home to his ailing father—only to be shunned by society as a fortune-hunting imposter. Sophie, alone, seems to believe in him. But an unexpected series of events sets them both in flight once more. As scandal pursues them to a remote ancestral estate, a man and a woman haunted by the past will defy every convention on earth for a future in each other's arms...

Handbook of Natural Gas Transmission and Processing Saeid Mokhatab 2018-10-16
Written by an internationally-recognized team of natural gas industry experts, the fourth edition of *Handbook of Natural Gas Transmission and Processing* is a unique, well-researched, and comprehensive work on the design and operation aspects of natural gas transmission and processing. Six new chapters have been added to include detailed discussion of the thermodynamic and energy efficiency of relevant processes, and recent developments in treating super-rich gas, high CO₂ content gas, and high nitrogen content gas with other contaminants. The new material describes technologies for processing today's unconventional gases, providing a fresh approach in solving today's gas processing challenges including greenhouse gas emissions. The updated edition is an excellent platform for gas processors and educators to understand the basic principles and innovative designs necessary to meet today's environmental and sustainability requirement while delivering acceptable project economics. Covers all technical and operational aspects of natural gas transmission and processing. Provides pivotal updates on the latest technologies, applications, and solutions. Helps to understand today's natural gas resources, and the best gas processing technologies. Offers design optimization and advice on the design and operation of gas plants.

Counterterrorism and Open Source Intelligence Uffe Wiil 2011-06-27 Since the 9/11 terrorist attacks in the United States, serious concerns were raised on domestic and international security issues. Consequently, there has been considerable interest recently in technological strategies and resources to counter acts of terrorism. In this context, this book provides a state-of-the-art survey of the most recent advances in the field of counterterrorism and open source intelligence, demonstrating how various existing as well as novel tools and techniques can be applied in combating covert terrorist networks. A particular focus will be on future challenges of open source intelligence and perspectives on how to effectively operate in order to prevent terrorist activities.

Nematodes of Forage Legumes and Grasses Nora Rizo Palacios 1988

International Investment Law and Arbitration Todd Weiler 2005-01-01 Essays on leading cases of international investment law.

The Greatest Show Off Earth Margaret Mahy 1996 Delphinium spends her tenth birthday aboard a traveling space circus, fighting against the dark forces who are bent on stamping out fun. Suggested level: primary, intermediate.

Diesel Progress Engines & Drives 1989

Antidotes Robert Flanagan 2001-10-25 *Antidotes* provides up-to-date information on the development and clinical use of antidotes, their proposed mechanism of action, toxicity, availability and practical aspects of their clinical use. The antidotes discussed are primarily those either in current use, or under consideration or development. Some other compounds of mainly historical interest

Fundamentals of Turbomachinery William W. Peng 2007-12-21 A comprehensive introduction to turbomachines and their applications With up-to-date coverage of all types of turbomachinery for students and practitioners, *Fundamentals of Turbomachinery* covers machines from gas, steam, wind, and hydraulic turbines to simple pumps, fans, blowers, and compressors used throughout industry. After reviewing the history of turbomachinery and the fluid mechanical principles

involved in their design and operation, the book focuses on the application and selection of machines for various uses, teaching basic theory as well as how to select the right machine for a specific use. With a practical emphasis on engineering applications of turbomachines, this book discusses the full range of both turbines and pumping devices. For each type, the author explains: * Basic principles * Preliminary design procedure * Ideal performance characteristics * Actual performance curves published by the manufacturers * Application and appropriate selection of the machine Throughout, worked sample problems illustrate the principles discussed and end-of-chapter problems, employing both SI and the English system of units, provide practice to help solidify the reader's grasp of the material.

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.

Parasitic Protozoa of Farm Animals and Pets Monica Florin-Christensen 2018-04-17 This book provides an in-depth yet concise overview of the most common and emerging protozoa that cause diseases in both farm animals and companion animals. As outlined in the concise introduction, pathogenic protozoans represent an evolutionary highly diverse and little understood group of disease-causing microorganisms. For each of the featured parasitic unicellular eukaryotes, it discusses the morphology, lifecycle, epidemiology and host-pathogen interactions. In addition, the book highlights the latest developments in diagnostic methods, as well as prevention and treatment strategies. Thorough information on genomes and genetic manipulation strategies for some of the protozoa covered in this book is also included. Infections involving parasitic protozoa can cause productivity losses and/or reduce the quality of life of infected animals. Some infections are zoonotic, posing an on-going public health threat. In most cases, prevention and treatment are either non-existent or need considerable improvement. On the other hand, a great deal of research has recently been conducted on these organisms, yielding valuable new information on their global distribution and revealing the mechanisms of host-pathogen interactions at the molecular level – and essential insights that can be used for the development of new control tools. This book includes extensive information on both basic aspects and recent scientific discoveries on these protozoa and thus constitutes a unique resource for students, veterinarians, and researchers alike.

The Wizard, the Witch & Two Girls from Jersey Lisa Papademetriou 2008-04-25 Two mismatched teenage girls must find their way back home to New Jersey after being zapped into the pages of a fantasy novel.

Fuel Cell Engines Matthew M. Mench 2008-03-07 *Fuel Cell Engines* is an introduction to the fundamental principles of electrochemistry, thermodynamics, kinetics, material science and transport applied specifically to fuel cells. It covers scientific fundamentals and provides a basic understanding that enables proper technical decision-making.

Gifted Young Children Louise Porter 2020-08-14 *Gifted Young Children* is a practical guide to identifying and supporting young children who may be gifted or talented. Louise Porter outlines how to identify and provide educationally for children aged up to 8 years with advanced development. She explains how teachers

and parents can promote children's emotional and social adjustment, including ways to enhance self-esteem, encourage friendships and support their autonomy. She shows how parents can discuss giftedness with children and respond to their needs. Updated to reflect recent research, this second edition is a valuable resource for parents and anyone working with or caring for a gifted or talented child. Praise for the first edition: a wealth of creative ideas and practical advice for developing the talents of this under-served population. Her humour and candor, compassion and insight will endear her work to readers internationally.' Joan Franklin Smutny, Director, Center for Gifted, National-Louis University, USA a comprehensive text that will meet the needs of a wide range of readers from early childhood professionals and teachers to parents.' Wilma Vialle, The Australasian Journal of Gifted Education interesting, clear and comprehensive' Helen Wilson, Research Centre for Able Pupils, Oxford Brookes University, UK

Africa's Future, Africa's Challenge Marito H. Garcia 2008-01-18 Early childhood, from birth through school entry, was largely invisible worldwide as a policy concern for much of the twentieth century. Children, in the eyes of most countries, were 'appendages' of their parents or simply embedded in the larger family structure. The child did not emerge as a separate social entity until school age (typically six or seven). 'Africa's Future, Africa's Challenge: Early Childhood Care and Development in Sub-Saharan Africa' focuses on the 130 million children south of the Sahel in this 0-6 age group. This book, the first of its kind, presents a balanced collection of articles written by African and non-African authors ranging from field practitioners to academicians and from members of government organizations to those of nongovernmental and local organizations. 'Africa's Future, Africa's Challenge' compiles the latest data and viewpoints on the state of Sub-Saharan Africa's children. Topics covered include the rationale for investing in young children, policy trends in early childhood development (ECD), historical perspectives of ECD in Sub-Saharan Africa including indigenous approaches, new threats from HIV/AIDS, and the importance of fathers in children's lives. The book also addresses policy development and ECD implementation issues; presents the ECD programming experience in several countries, highlighting best practices and challenges; and evaluates the impact of ECD programs in a number of countries.

Encyclopedia of Modern U.S. Military Weapons Timothy M. Laur 1998-07-01 Covers the weapons, vehicles, equipment, and systems used by the United States military
Current Trends in Monoclonal Antibody Development and Manufacturing Steven J. Shire 2009-11-11 Monoclonal antibodies represent one of the fastest growing areas of new drug development within the pharmaceutical industry. Several blockbuster products have been approved over the past several years including Rituxan, Remicade, Avastin, Humira, and Herceptin. In addition, over 300 new drugs are currently in clinical trials. With both large, established biotechnology companies and small start-ups involved in the development of this important class of molecules, monoclonal antibodies products will become increasingly prevalent over the next decade. Recently the regulatory review of monoclonal antibodies has been moved from Center for Biologics and Research to the Center for Drug Evaluation and Research (CDER) division of the US Food and Drug Administration. It is anticipated that CDER will expect a certain minimal amount of data to be provided as more of these products move through the regulatory pipeline. *Current Trends in Monoclonal Antibody Development and Manufacturing* will provide readers with an understanding of what is currently being done in the industry to develop, manufacture, and release monoclonal antibody products and what will be required for a successful

regulatory submission.

Chemical Warfare Agents Timothy T. Marrs 2007-04-04 *Chemical Warfare Agents, Second Edition* has been totally revised since the successful first edition and expanded to about three times the length, with many new chapters and much more in-depth consideration of all the topics. The chapters have been written by distinguished international experts in various aspects of chemical warfare agents and edited by an experienced team to produce a clear review of the field. The book now contains a wealth of material on the mechanisms of action of the major chemical warfare agents, including the nerve agent cyclosarin, formally considered to be of secondary importance, as well as ricin and abrin. *Chemical Warfare Agents, Second Edition* discusses the physico-chemical properties of chemical warfare agents, their dispersion and fate in the environment, their toxicology and management of their effects on humans, decontamination and protective equipment. New chapters cover the experience gained after the use of sarin to attack travellers on the Tokyo subway and how to deal with the outcome of the deployment of riot control agents such as CS gas. This book provides a comprehensive review of chemical warfare agents, assessing all available evidence regarding the medical, technical and legal aspects of their use. It is an invaluable reference work for physicians, public health planners, regulators and any other professionals involved in this field. Review of the First Edition: "What more appropriate time for a title of this scope than in the post 9/11 era? ...a timely, scholarly, and well-written volume which offers much information of immense current and...future benefit." –VETERINARY AND HUMAN TOXICOLOGY

Watch Me Play T.L. Taylor 2018-10-16 A look at the revolution in game live streaming and esports broadcasting Every day thousands of people broadcast their gaming live to audiences over the internet using popular sites such as Twitch, which reaches more than one hundred million viewers a month. In these new platforms for interactive entertainment, big esports events featuring digital game competitors live stream globally, and audiences can interact with broadcasters—and each other—through chat in real time. What are the ramifications of this exploding online industry? Taking readers inside home studios and backstage at large esports events, *Watch Me Play* investigates the rise of game live streaming and how it is poised to alter how we understand media and audiences. Through extensive interviews and immersion in this gaming scene, T. L. Taylor delves into the inner workings of the live streaming platform Twitch. From branding to business practices, she shows the pleasures and work involved in this broadcasting activity, as well as the management and governance of game live streaming and its hosting communities. At a time when gaming is being reinvented through social media, the potential of an ever-growing audience is transforming user-generated content and alternative distribution methods. These changes will challenge the meaning of ownership and intellectual property and open the way to new forms of creativity. The first book to explore the online phenomenon Twitch and live streaming games, *Watch Me Play* offers a vibrant look at the melding of private play and public entertainment.

Bioprocess Technology Anton Moser 2012-12-06 This book is based on a 1981 German language edition published by Springer Verlag, Vienna, under the title *Bioprozesstechnik*. Philip Manor has done the translation, for which I am deeply grateful. This book differs from the German edition in many ways besides language. It is substantially enlarged and updated, and examples of computer simulations have been added together with other appendices to make the work both more comprehensive and more practical. This book is the result of over 15 years of

experience in teaching and research. It stems from lectures that I began in 1970 at the Technical University of Graz, Austria, and continued at the University of Western Ontario in London, Canada, 1980; at the Free University of Brussels, 1981; at Chalmers Technical University in G6teborg, Sweden; at the Academy of Sciences in Iena, East Germany; at the "Haus der Technik" in Essen, West Germany, 1982; at the Academy of Science in Sofia, Bulgaria; and at the Technical University of Delft, Netherlands, 1986. The main goals of this book are, first, to bridge the gap that always exists between basic principles and applied engineering practice, second, to enhance the integration between biological and physical phenomena, and, third, to contribute to the internal development of the field of biotechnology by describing the process-oriented field of bioprocess technology.

Fundamentals of Electrical Engineering Charles A. Gross 2012-02-15 Real-world engineering problems are rarely, if ever, neatly divided into mechanical, electrical, chemical, civil, and other categories. Engineers from all disciplines eventually encounter computer and electronic controls and instrumentation, which require at least a basic knowledge of electrical and other engineering specialties, as well as associated economics, and environmental, political, and social issues. Co-authored by Charles Gross—one of the most well-known and respected professors in the field of electric machines and power engineering—and

his world-renowned colleague Thad Roppel, *Fundamentals of Electrical Engineering* provides an overview of the profession for engineering professionals and students whose specialization lies in areas other than electrical. For instance, civil engineers must contend with commercial electrical service and lighting design issues. Mechanical engineers have to deal with motors in HVAC applications, and chemical engineers are forced to handle problems involving process control. Simple and easy-to-use, yet more than sufficient in rigor and coverage of fundamental concepts, this resource teaches EE fundamentals but omits the typical analytical methods that hold little relevance for the audience. The authors provide many examples to illustrate concepts, as well as homework problems to help readers understand and apply presented material. In many cases, courses for non-electrical engineers, or non-EEs, have presented watered-down classical EE material, resulting in unpopular courses that students hate and senior faculty members understandingly avoid teaching. To remedy this situation—and create more well-rounded practitioners—the authors focus on the true EE needs of non-EEs, as determined through their own teaching experience, as well as significant input from non-EE faculty. The book provides several important contemporary interdisciplinary examples to support this approach. The result is a full-color modern narrative that bridges the various EE and non-EE curricula and serves as a truly relevant course that students and faculty can both enjoy.