

A K Jairath Control Systems 7th Edition Ebook And

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Biogenic Amines (BA) - Joanna Stadnik 2018

Biogenic amines are nitrogenous organic bases of low molecular weight with biological functions in animals, plants, microorganisms and humans. Their formation in food is either the result of endogenous amino acids decarboxylase activity in raw food material or the breakdown of free amino acids due to the action of microbial decarboxylase enzymes. Consumption of food containing excessive amounts of these amines can have toxicological implications due to their psychoactive and/or vasoactive properties. Therefore, the control of biogenic amines accumulation in foods during processing and storage is a challenge for the food industry. This book reviews origins, biological importance and human health implications of biogenic amines. Chapter One focus on the occurrence of BAs in different foodstuffs and in the correspondent challenges of their analysis. In Chapter Two, the authors provide an overview and a critical discussion of sample preparation techniques to determine BAs in biological specimens, with special emphasis on microextraction

techniques. The advantages and some limitations, as well as how they compare to previously used extraction techniques, are also addressed herein. Chapter Three focuses on the relation of dietary biogenic amines occurrence and associated adverse health effects following consumption of implicated food. In Chapter Four, the authors focus on some food products and the relationship between the presence of BA according to their origin, inducing factors and distinctive characteristics of the technological processes that could control BA production in animal foods, plant foods and beverages. Chapter Five tackles the most important aspects of BA formation during the manufacturing of alcoholic beverages. The significance of BAs is also described from the perspective of microbiological and technological factors. The authors of Chapter Six critically review the latest knowledge, described in studies carried out throughout the world about the occurrence and the food safety issues of BAs in two selected animal originating food sources; that is, fish and dairy products. Moreover, different technological strategies adopted for the prevention

of BA accumulation in the abovementioned food products for safety purposes are evaluated. Chapter Seven briefly summarises current knowledge on biogenic amines content in dry-cured and fermented meats and collects data on the factors affecting their formation. The methods for aminogenesis control in dry-cured meats are also described. The aim of Chapter Eight is to identify the origin, biological importance, and human health implications of the serotonin (5-HydroxyTryptamine [5-HT]) in pain. Finally, effects of tyramine (TA) and octopamine (OA) on behaviors and physiology in social insects have been introduced in Chapter Nine.

Modern Control System Theory - M. Gopal 1993

About the book... The book provides an integrated treatment of continuous-time and discrete-time systems for two courses at postgraduate level, or one course at undergraduate and one course at postgraduate level. It covers mainly two areas of modern control theory, namely; system theory, and multivariable and optimal control. The coverage of the former is quite exhaustive while that of latter is adequate with significant provision of the necessary topics that enables a research student to comprehend various technical papers. The stress is on interdisciplinary nature of the subject. Practical control problems from various engineering disciplines have been drawn to illustrate the potential concepts. Most of the theoretical results have been presented in a manner suitable for digital computer programming along with the necessary algorithms for numerical computations.

Control Systems: Theory and Applications - Kuntsevich, Vsevolod 2018-11-12

In recent years, a considerable

amount of effort has been devoted, both in industry and academia, towards the development of advanced methods of control theory with focus on its practical implementation in various fields of human activity such as space control, robotics, control applications in marine systems, control processes in agriculture and food production. *Control Systems: Theory and Applications* consists of selected best papers which were presented at XXIV International conference on automatic control "Automatics 2017" (September 13-15, 2017, Kyiv, Ukraine) organized by Ukrainian Association on Automatic Control (National member organization of IFAC – International Federation on Automatic Control) and National University of Life and Environmental Sciences of Ukraine. More than 120 presentations were discussed at the conference, with participation of the scientists from the numerous countries. The book is divided into two main parts, a first on Theory of Automatic Control (5 chapters) and the second on Control Systems Applications (8 chapters). The selected chapters provide an overview of challenges in the area of control systems design, modeling, engineering and implementation and the approaches and techniques that relevant research groups within this area are employing to try to resolve these. This book on advanced methods of control theory and successful cases in the practical implementation is ideal for personnel in modern technological processes automation and SCADA systems, robotics, space and marine industries as well as academic staff and master/research students in computerized control systems, automatized and computer-integrated systems, electrical and mechanical engineering.

Evidence-Based Practice of Critical Care E-Book - Clifford S. Deutschman

2015-11-26

Evidence-Based Practice of Critical Care, 2nd Edition, presents objective data and expert guidance on managing critically ill patients in unique question-based chapters that focus on best practices. Now thoroughly updated by Drs. Clifford S. Deutschman, Patrick J. Neligan, and nearly 200 critical-care experts, this highly regarded title remains the only book of its kind that provides a comprehensive framework for translating evidence into practice, making it a valuable resource for both residents and practitioners. Tap into the expertise of nearly 200 critical-care experts who discuss the wide variety of clinical options in critical care, examine the relevant research, and provide recommendations based on a thorough analysis of available evidence. Think through each question in a logical, efficient manner, using a practical, consistent approach to available management options and guidelines. Find the information you need quickly with tables that summarize the available literature and recommended clinical approaches. Navigate a full range of challenges from routine care to complicated and special situations. Stay up to date with new issues and controversies such as the redefinition of sepsis • changing approaches to fluid administration • immune suppression in sepsis • monitoring the microcirculation • the long-term sequelae of critical illness • minimizing ventilator associated lung injury • the benefits of evidence-based medicine management guidelines • rapid response teams • and more. Benefit from all-new sections covering persistent critical illness and the role of advanced practice nurses and physician assistants in the ICU.

Vibration Simulation Using MATLAB and

ANSYS - Michael R. Hatch 2000-09-21
Transfer function form, zpk, state space, modal, and state space modal forms. For someone learning dynamics for the first time or for engineers who use the tools infrequently, the options available for constructing and representing dynamic mechanical models can be daunting. It is important to find a way to put them all in perspective and have them available for quick reference. It is also important to have a strong understanding of modal analysis, from which the total response of a system can be constructed. Finally, it helps to know how to take the results of large dynamic finite element models and build small MATLAB® state space models. *Vibration Simulation Using MATLAB and ANSYS* answers all those needs. Using a three degree-of-freedom (DOF) system as a unifying theme, it presents all the methods in one book. Each chapter provides the background theory to support its example, and each chapter contains both a closed form solution to the problem-shown in its entirety-and detailed MATLAB code for solving the problem. Bridging the gap between introductory vibration courses and the techniques used in actual practice, *Vibration Simulation Using MATLAB and ANSYS* builds the foundation that allows you to simulate your own real-life problems. Features Demonstrates how to solve real problems, covering the vibration of systems from single DOF to finite element models with thousands of DOF Illustrates the differences and similarities between different models by tracking a single example throughout the book Includes the complete, closed-form solution and the MATLAB code used to solve each problem Shows explicitly how to take the results of a realistic ANSYS finite element model and develop a small MATLAB state-space model

Provides a solid grounding in how individual modes of vibration combine for overall system response

Power System - BR Gupta 2008

It is gratifying to note that the book has very widespread acceptance by faculty and students throughout the country. In the revised edition some new topics have been added. Additional solved examples have also been added. The data of transmission system in India has been updated.

Transitions Theory - Afaf I. Meleis, PhD, DrPS (hon), FAAN 2010-02-17

"It is very exciting to see all of these studies compiled in one book. It can be read sequentially or just for certain transitions. It also can be used as a template for compilation of other concepts central to nursing and can serve as a resource for further studies in transitions. It is an excellent addition to the nursing literature." Score: 95, 4 Stars. -- Doody's "Understanding and recognizing transitions are at the heart of health care reform and this current edition, with its numerous clinical examples and descriptions of nursing interventions, provides important lessons that can and should be incorporated into health policy. It is a brilliant book and an important contribution to nursing theory." Kathleen Dracup, RN, DNSc Dean and Professor, School of Nursing University of California San Francisco Afaf Meleis, the dean of the University of Pennsylvania School of Nursing, presents for the first time in a single volume her original "transitions theory" that integrates middle-range theory to assist nurses in facilitating positive transitions for patients, families, and communities. Nurses are consistently relied on to coach and support patients going through major life transitions, such as illness, recovery, pregnancy, old age, and

many more. A collection of over 50 articles published from 1975 through 2007 and five newly commissioned articles, *Transitions Theory* covers developmental, situational, health and illness, organizational, and therapeutic transitions. Each section includes an introduction written by Dr. Meleis in which she offers her historical and practical perspective on transitions. Many of the articles consider the transitional experiences of ethnically diverse patients, women, the elderly, and other minority populations. Key Topics Discussed: Situational transitions, including discharge and relocation transitions (hospital to home, stroke recovery) and immigration transitions (psychological adaptation and impact of migration on family health) Educational transitions, including professional transitions (from RN to BSN and student to professional) Health and illness transitions, including self-care post heart failure, living with chronic illness, living with early dementia, and accepting palliative care Organization transitions, including role transitions from acute care to collaborative practice, and hospital to community practice Nursing therapeutics models of transition, including role supplementation models and debriefing models

ELECTRONIC DEVICES AND CIRCUITS - I. J. NAGRATH 2007-09-13

Designed specifically for undergraduate students of Electronics and Electrical Engineering and its related disciplines, this book offers an excellent coverage of all essential topics and provides a solid foundation for analysing electronic circuits. It covers the course named *Electronic Devices and Circuits* of various universities. The book will also be useful to diploma students, AMIE students, and those pursuing courses in B.Sc. (Electronics) and

M.Sc. (Physics). The students are thoroughly introduced to the full spectrum of fundamental topics beginning with the theory of semiconductors and p-n junction behaviour. The devices treated include diodes, transistors–BJTs, JFETs and MOSFETs–and thyristors. The circuitry covered comprises small signal (ac), power amplifiers, oscillators, and operational amplifiers including many important applications of those versatile devices. A separate chapter on IC fabrication technology is provided to give an idea of the technologies being used in this area. There are a variety of solved examples and applications for conceptual understanding. Problems at the end of each chapter are provided to test, reinforce and enhance learning.

Proceeding of International Conference on Intelligent Communication, Control and Devices -

Rajesh Singh 2016-09-17

The book presents high-quality research papers presented at the first international conference, ICICCD 2016, organised by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 2nd and 3rd April, 2016. The book is broadly divided into three sections: Intelligent Communication, Intelligent Control and Intelligent Devices. The areas covered under these sections are wireless communication and radio technologies, optical communication, communication hardware evolution, machine-to-machine communication networks, routing techniques, network analytics, network applications and services, satellite and space communications, technologies for e-communication, wireless Ad-Hoc and sensor networks, communications and information security, signal

processing for communications, communication software, microwave informatics, robotics and automation, optimization techniques and algorithms, intelligent transport, mechatronics system, guidance and navigation, algorithms, linear/non-linear control, home automation, sensors, smart cities, control systems, high performance computing, cognition control, adaptive control, distributed control, prediction models, hybrid control system, control applications, power system, manufacturing, agriculture cyber physical system, network control system, genetic control based, wearable devices, nano devices, MEMS, bio-inspired computing, embedded and real-time software, VLSI and embedded systems, FPGA, digital system and logic design, image and video processing, machine vision, medical imaging, and reconfigurable computing systems.

Mountain Emergency Medicine -

Hermann Brugger 2021-03-15T00:00:00+01:00

Mountain emergency medicine has seen exponential development due to the ever increasing number of people who hike or trek as well as practice extreme sports. Emergency physicians and nurses need to be equipped with the necessary training to be able to manage “on the field” accidents and sicknesses as well as their own physical security. Theoretical knowledge is generally of high level but practical expertise is dangerously lacking in many operators. Furthermore, treatment modalities on the field have not been completely codified and are not supported by internationally-accepted guidelines. This book is the first to offer a complete and thorough approach to this field of Emergency Medicine based on the latest research findings.

Control Systems (As Per Latest Jntu Syllabus) -

I. J. Nagrath 2009

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

Essential English Grammar 2/E - Murphy 1999

Essential English Grammar is a grammar reference and practice book for elementary learners. Modeled on Raymond Murphy's highly successful Intermediate English Grammar, it concentrates on areas of grammar normally taught at elementary level. *Higher Engineering Mathematics (Sem-III)* - N. P. Bali 2005

Integrated Watershed Management in Rainfed Agriculture - Suhas P. Wani 2011-09-16

This book provides a comprehensive presentation of the realization of improved rainfed agriculture yield in semi-arid and dry land areas. The incentive of watershed programs is to increase the return on investment with over 20% for 65% of the projects that are currently underperforming. Besides techniques to improve the livelihood of the many small

The Brave - Rachna Bisht 2014-08-15
21 riveting stories from the battlefield about how India's highest military honour was won. The Brave takes you to the hearts and minds of India's bravest soldiers, all of whom won the Param Vir Chakra, India's greatest military honour. With access to the Army, families and comrades-in-arms of the soldiers, Rachna Bisht Rawat paints the most vivid portrait of these men and their extraordinary deeds. How hard is it to fight at 20,000 feet in sub-zero temperatures? Why did Captain Vikram Batra say 'Yeh dil maange more'? How do wives and girlfriends of soldiers who don't return cope? What happens when the enemy is someone that you have trained? How did the Charlie Company

push back the marauding Chinese? How did a villager from Uttar Pradesh become a specialist in destroying tanks? Both gripping and inspiring, *The Brave* is the ultimate book on the Param Vir Chakra.

Circuit and Network Theory–GATE, PSUS AND ES Examination - Satish K Karna
Test Prep for Circuit and Network Theory–GATE, PSUS AND ES Examination
Institutions, Technology, and Water Control - Vishal Narain 2003

Few studies of resource management have paid as much attention or intelligently surveyed the operational aspects of Water Users Associations (WUAs) as *Institution, Technology and Water Control*. Relying on ethnographic research methods, Narain takes an interdisciplinary approach to examine how institutions are shaped by technology. Calling attention to the internal organisational dynamics of the WUAs, the author argues that the emergence of institutions for collective action is shaped by technology and social relationships.

The Electronic Packaging Handbook - Glenn R. Blackwell 2017-12-19

The packaging of electronic devices and systems represents a significant challenge for product designers and managers. Performance, efficiency, cost considerations, dealing with the newer IC packaging technologies, and EMI/RFI issues all come into play. Thermal considerations at both the device and the systems level are also necessary. *The Electronic Packaging Handbook*, a new volume in the *Electrical Engineering Handbook Series*, provides essential factual information on the design, manufacturing, and testing of electronic devices and systems. Co-published with the IEEE, this is an ideal resource for engineers and technicians involved in any aspect of design, production, testing or packaging of electronic products,

regardless of whether they are commercial or industrial in nature. Topics addressed include design automation, new IC packaging technologies, materials, testing, and safety. Electronics packaging continues to include expanding and evolving topics and technologies, as the demand for smaller, faster, and lighter products continues without signs of abatement. These demands mean that individuals in each of the specialty areas involved in electronics packaging-such as electronic, mechanical, and thermal designers, and manufacturing and test engineers-are all interdependent on each others knowledge. The Electronic Packaging Handbook elucidates these specialty areas and helps individuals broaden their knowledge base in this ever-growing field.

Electrical Power Systems - C. L. Wadhwa 2009

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.

Ethnic Skin and Hair and Other Cultural Considerations - Becky S. Li 2021-03-03

This book is written to help educate dermatologists and general physicians of the challenges involved in treating those with darker skin tones in culturally appropriate ways. Distinctly broken up into three sections for ease of use, the reader enters the text through a series of chapters meant to introduce the physician to the anatomical structure and makeup of patient with skin of color as well as the evolution basic

concepts for understanding and treatment. The second and longest section looks at diseases and cosmetic concerns covering some of the most common issues for patients with skin of color. The last section offers cultural considerations to treatment and care. Socially conscious and comprehensive, *Ethnic Skin and Hair* is written by some of the leading names in dermatological treatment of skin of color, and functions as a concise and thorough tool for dermatologists at every stage in their career.

Melasma and Vitiligo in Brown Skin - Evangeline B. Handog 2017-02-10

This book sheds new light on pigmentary disorders in people with brown skin. Brown skin encompasses many races and ethnicities. Due to migration, people with brown skin are seen almost everywhere in the world. A wide variety of pigmentary disorders exists among this population but the most disturbing and challenging are melasma and vitiligo This book covers these two disorders, among people of brown skin, from the epidemiology to management, in a detailed yet easy-to-read and easy-to-use style.

Chemical-Mechanical Planarization of Semiconductor Materials - M.R. Oliver 2004-01-26

This book contains a comprehensive review of CMP (Chemical-Mechanical Planarization) technology, one of the most exciting areas in the field of semiconductor technology. It contains detailed discussions of all aspects of the technology, for both dielectrics and metals. The state of polishing models and their relation to experimental results are covered. Polishing tools and consumables are also covered. The leading edge issues of damascene and new dielectrics as well as slurryless technology are discussed.

Breeding for robustness in cattle -

Marija Klopčič 2009-01-28

The past decade has revealed unfavourable trends in e.g. fertility, udder health and locomotion in some major dairy cattle breeds due to a large increase in production and insufficient consideration of functional traits in the breeding goals. Such unfavourable trends in some functional traits increase costs. Additionally, the enlargement of herds leads to less available labour time per individual cow. This asks for cows that are easy to handle. At the same time, society is demanding a higher welfare standard of animals. These contradicting developments have increased the desire for so called more robust animals. Robustness can be defined as 'the ability to maintain homeostasis in commonly accepted and sustainable herds of the near future'; or 'the ability of the cow to function well in the environment she lives in as well as in a wide range of climates and production systems'. This book contains a series of articles (26) dealing with the concept of robustness, including aspects like evolution, genetics, environment, animal health and welfare, and integrity. Besides the major functional traits also the links to energy balance, hot climatic conditions, and the attitude and input of stakeholders towards robustness as part of the breeding program are discussed. This book is the first attempt to summarise the available knowledge concerning this topic in cattle, making this book unique. The contributions are from authors of 16 countries from all over the world. However, the focus is presently on farm animal level, while in future robustness of the whole production system may also require additional attention.

Modern Control Systems - Richard C.

Dorf 2011

Modern Control Systems, 12e, is ideal for an introductory undergraduate course in control systems for engineering students. Written to be equally useful for all engineering disciplines, this text is organized around the concept of control systems theory as it has been developed in the frequency and time domains. It provides coverage of classical control, employing root locus design, frequency and response design using Bode and Nyquist plots. It also covers modern control methods based on state variable models including pole placement design techniques with full-state feedback controllers and full-state observers. Many examples throughout give students ample opportunity to apply the theory to the design and analysis of control systems. Incorporates computer-aided design and analysis using MATLAB and LabVIEW MathScript.

Nutrition and Enhanced Sports Performance - Debasis Bagchi
2013-07-26

Nutrition and Enhanced Sports Performance: Muscle Building, Endurance, and Strength provides a comprehensive overview to understanding the integrated impact of nutrition on performance. The book is divided into five main themes: An introductory overview of the role of nutrition in human health Various types of physical exercises, including cardiovascular training, resistance training, aerobic and anaerobic exercise, bioenergetics, and energy balance. This section also covers the nutritional requirements associated with various fitness programs, as well as exercise and nutritional requirements in special populations, including the pre-pubertal, young, elderly, and disabled. Sports and nutritional requirements. The molecular mechanisms involved in muscle

building A thorough review of various food, minerals, supplements, phytochemicals, amino acids, transition metals, small molecules and other ergogenic agents that have been implicated in muscle building and human performance This book is an ideal resource for nutritionists, dietitians, exercise physiologists, health practitioners, researchers, students, athletes, trainers, and all those who wish to broaden their knowledge of nutrition and its role in human performance. Discusses the impact of nutrition, including food, minerals, vitamins, hormones, trace elements, etc., that can significantly attenuate/improve human performance and sports Addresses the molecular and cellular pathways involved in the physiology of muscle growth and the mechanisms by which nutrients affect muscle health, growth and maintenance Encompasses multiple forms of sports/performance and the salient contribution of appropriate nutrition on special populations, including nutritional guidelines and recommendations to athletes Strong focus on muscle building

Textbook Of Control Systems Engineering (Vtu) - I. J. Nagrath
2008

Biosimilarity - Sarfaraz K. Niazi
2018-10-03

Summary: The focus of this book is on how the U.S. FDA will approve biosimilar drugs, as learned from recent approvals by the FDA.

Understanding the limitations of the statutory limits and non-inferiority testing are presented as tools to obviate patient trials and minimize testing of immunogenicity. An in-depth scientific, mathematical and statistical view of the tools required to establish biosimilarity of biological drugs of different complexity -- a must for every

developer of biosimilars. Features: First comprehensive analysis based on new guidelines and approval packages of several biosimilars Presents the first approach to challenge FDA in reducing or eliminating any testing in patients. Provides a comprehensive understanding of the U.S. statutory requirements vis-a-vis the regulatory guidelines Provides model CQA and Analytical Similarity testing protocols for cytokines and monoclonal antibodies Allow creation of a fast-to-market pathway to develop biosimilars

Handbook of Health Social Work - Sarah Gehlert
2006-03-20

The Handbook of Health Social Work provides a comprehensive and evidence-based overview of contemporary social work practice in health care. Written from a wellness perspective, the chapters cover the spectrum of health social work settings with contributions from a wide range of experts. The resulting resource offers both a foundation for social work practice in health care and a guide for strategy, policy, and program development in proactive and actionable terms. Three sections present the material: The Foundations of Social Work in Health Care provides information that is basic and central to the operations of social workers in health care, including conceptual underpinnings; the development of the profession; the wide array of roles performed by social workers in health care settings; ethical issues and decision - making in a variety of arenas; public health and social work; health policy and social work; and the understanding of community factors in health social work. Health Social Work Practice: A Spectrum of Critical Considerations delves into critical practice issues such as theories of health behavior; assessment; effective communication with both

clients and other members of health care teams; intersections between health and mental health; the effects of religion and spirituality on health care; family and health; sexuality in health care; and substance abuse. *Health Social Work: Selected Areas of Practice* presents a range of examples of social work practice, including settings that involve older adults; nephrology; oncology; chronic diseases such as diabetes, heart disease, and HIV/AIDS; genetics; end of life care; pain management and palliative care; and alternative treatments and traditional healers. The first book of its kind to unite the entire body of health social work knowledge, the *Handbook of Health Social Work* is a must-read for social work educators, administrators, students, and practitioners.

Biogenic Amines on Food Safety - Claudia Ruiz-Capillas 2019-07-16

Biogenic amines have been known for some time. These compounds are found in varying concentrations in a wide range of foods (fish, cheese, meat, wine, beer, vegetables, etc.) and their formations are influenced by different factors associated to those foods (composition, additives, ingredients, storage, microorganism, packaging, handling, conservation, etc.). The intake of foods containing high concentrations of biogenic amines can present a health hazard. Additionally, they have been used to establish indexes in various foods in order to signal the degree of freshness and/or deterioration of food. Nowadays, there has been an increase in the number of food poisoning episodes in consumers associated with the presence of these biogenic amines, mainly associated with histamines. Food safety is one of the main concerns of the consumer and safety agencies of different countries (EFSA, FDA, FSCJ, etc.),

which have, as one of their main objectives, to control these biogenic amines, principally histamine, to assure a high level of food safety. Therefore, it is necessary to deepen our understanding of the formation, monitoring and reduction of biogenic amines during the development, processing and storage of food, even the effect of biogenic amines in consumers after digestion of foods with different levels of these compounds. With this aim, we are preparing a Special Issue on the topic of "Biogenic Amines in Food Safety", and we invite researchers to contribute original and unpublished research articles and reviews articles that involve studies of biogenic amines in food, which can provide an update to our knowledge of these compounds and their impacts on food quality and food safety.

Annual Update in Intensive Care and Emergency Medicine 2017 - Jean-Louis Vincent 2017-03-31

The Annual Update compiles reviews of the most recent developments in experimental and clinical intensive care and emergency medicine research and practice in one comprehensive reference book. The chapters are written by well recognized experts in these fields. The book is addressed to everyone involved in internal medicine, anesthesia, surgery, pediatrics, intensive care and emergency medicine.

The Stroke Book - Michel T. Torbey 2013-07-18

An essential companion for busy professionals seeking to navigate stroke-related clinical situations successfully and make quick informed treatment decisions.

On The Waterfront: Water Distribution, Technology And Agrarian Change In A South Indian Canal Irrigation System - Peter P. Mollinga 2003

Series: Wageningen University Water

Resources Series. This book analyses the struggle over water in a large-scale irrigation system in Raichur District, Karnataka, South India. It looks at water control as a simultaneously technical, managerial and socio-political process. The triangle of accommodation of different categories of farmers, irrigation department officials and local politicians, involving water, votes, money, employment, credit and harassment, is documented. The book shows that the physical infrastructure, notably the division structures, are signposts of struggle, expressing the balance of power between farmers and the irrigation department, and that between head- and tail-end farmers. It concludes with a discussion of irrigation reform efforts in India: reasons for the very slow transformation of the sector, and how a more integrated perspective on irrigation could provide directions for the way forward.

Water Communication - Celine Herve-Bazin 2014-04-14

Water Communication aims at setting a first general outlook at what communication on water means, who communicates and on what topics. Through different examples and based on different research and contributions, this book presents an original first overview of "water communication". It sets its academic value as one distinct scientific domain and provides tips and practical tools to professionals. The book contributes to avoid mixing messages, targets and discourses when setting communication related to water issues. The book facilitates coordination within the water sector and its organizations as water is a wide field of applications where inadequate words and language understanding between its stakeholders is one of the main

obstacles today. Water Communication provides and describes: a general outlook and retrospective of the history of the water sector in terms of communication the landscape of organizations communicating on water and classification of topics the differences between communication, information, mediation, raising awareness examples of communication campaigns on water Water Communication is a vital resource for communication managers, utility managers, policy makers involved in water management and students in water sciences and environment. Colour figures from the book are available to view on the WaterWiki at:

<http://www.iwawaterwiki.org/xwiki/bin/view/Articles/WaterCommunicationAnalysisofStrategiesandCampaignsfromtheWaterSector> Editor: Celine Herve-Bazin, Celsa - Sorbonne University, Paris, France

Dermatologic Complications with Body Art - Christa de Cuyper 2009-12-01 Body piercings, tattoos, and permanent make-up have become very popular as a fashion statement in recent decades. This book guides the reader through the world of body art. An overview is first provided of the history and epidemiology of tattoos and piercings. Subsequent chapters go on to examine in detail the materials and devices used in various forms of body art, and the techniques employed. All relevant risks and potential complications are clearly described with the aid of color illustrations. Special attention is paid to allergic reactions and the management of complications. The closing chapter examines the techniques and devices used for tattoo removal, with a particular focus on the use of different lasers. Pathology of Childhood and Adolescence - Consolato M. Sergi 2020-10-28

This book covers the full range of pathologic conditions encountered during childhood and youth, including tumors and tumor-like conditions of all organ systems, with direct links to developmental biology pathways and genetics. It provides a user-friendly road map to the main diagnostic criteria and combines an organ-related approach with an explanation of the diagnostic approaches to various specific diseases and syndromes, including sequential segmental analysis of congenital heart disease. More than 500 new full-color macro- and microphotographs using more than 500 multi-photographic panels are included to provide a realistic basis for comparison macroscopically and under the lens, and summarizing tables highlight key information in the concise form required for at-a-glance review. Pathologists will find the book very helpful when signing out complex and challenging cases, and it will also prove invaluable for exam preparation and continuing medical education.

Surgical Decision Making E-Book -

Robert C. McIntyre 2019-01-08
Using a proven, practical, algorithmic approach, Surgical Decision Making summarizes evidence-based guidelines and practice protocols in an easy-to-follow format. Designed to sharpen the decision-making skills of both trainees and practicing surgeons, the 6th Edition directs your focus to the critical decision points in a wide range of clinical scenarios, helping you determine optimal evaluation and management to secure the best possible patient outcomes. Algorithms are accompanied by annotations that explain all critical factors affecting decisions in a concise, readable manner. Reflects the scope of practice of today's general surgeon, with fresh, expert

perspectives from new editor Dr. Richard Schulick and numerous new contributors. Contains 58 new chapters and thoroughly revised content throughout. Includes new coverage of Preoperative Evaluation of the Geriatric Patient, Pancreatic Cystic Neoplasm, Familial Breast Cancer, Resuscitative Endovascular Balloon Occlusion of the Aorta, Blunt Cerebrovascular Injury, and much more. Uses an easy-to-follow, consistent format, with an algorithm on one page and short descriptions explaining the various steps in the decision-making process on the opposite page. Includes explanatory notes that summarize presenting signs and symptoms, laboratory investigation, diagnostic modalities, surgical therapies, and adjuvant therapies for each condition. Encompasses both general surgery and surgical subspecialties—helping you directly manage a broad range of problems. Emphasizes information that frequently appears on board exams.

Retinal and Choroidal Imaging in Systemic Diseases - Jay Chhablani
2017-12-29

This book explains the underlying rationale for retinal and choroidal imaging in the context of systemic diseases. Various systemic diseases involve the eyes, and for some, the eyes could provide the first clue to their presence. Advances in posterior segment imaging have significantly improved our understanding of the pathophysiology and management of posterior segment diseases. However, imaging techniques like enhanced depth imaging, oximetry, adaptive optics, and retinal blood flowmetry have remained largely unexplored in connection with systemic diseases. Enhancing the available literature on the use of such imaging techniques for various systemic diseases, this handbook will help readers understand their pathomechanisms, supporting

early diagnosis and more targeted therapeutic approaches. As such, it offers an essential resource for ophthalmologists, especially those with predominantly vitreo-retinal and uvea experience.

Acute Care Surgery Handbook - Salomone Di Saverio 2017-03-07

This pocket manual is a practically oriented guide to abdominal and gastrointestinal emergencies in acute care surgery. It covers the most common injuries to the entire area, offering careful descriptions of diagnostic procedures, surgical techniques and non-operative management. The guide stems from collaboration with the World Society of Emergency Surgery (WSES) and aims to provide general surgeons, residents and trainees with a comprehensive and up-to-date overview of the most relevant operative techniques and with useful "tips and tricks" applicable in for their daily clinical practice. A second volume on other surgical emergencies, which also includes chapters on antibiotic management, nutrition and interventional radiology in acute care surgery, is also available.

Modern Control Systems - Richard C.

Dorf 1980

Automotive Control Systems - Uwe Kiencke 2005-04-13

Written by two of the most respected, experienced and well-known researchers and developers in the field (e.g., Kiencke worked at Bosch where he helped develop anti-breaking system and engine control; Nielsen has lead joint research projects with Scania AB, Mecel AB, Saab Automobile AB, Volvo AB, Fiat GM Powertrain AB, and DaimlerChrysler. Reflecting the trend to optimization through integrative approaches for engine, driveline and vehicle control, this valuable book enables control engineers to understand engine and vehicle models necessary for controller design and also introduces mechanical engineers to vehicle-specific signal processing and automatic control. Emphasis on measurement, comparisons between performance and modelling, and realistic examples derive from the authors' unique industrial experience . The second edition offers new or expanded topics such as diesel-engine modelling, diagnosis and anti-jerking control, and vehicle modelling and parameter estimation. With only a few exceptions, the approaches