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MAREN JADA

Textbook of Clinical Embryology, 2nd Updated Edition, ebook Harper Collins

Salient Features Inclusion of new features such as learning objectives, timing of key developmental events facilitate to focus on important facts
 Thorough revision of the chapters on cell division and gametogenesis, extraembryonic membranes, developments of face, nose and palate;
 cardiovascular system, urogenital system Present applications of embryology in clinical practice Inclusion of new diagrams and improvement in earlier
 diagrams for easy understanding and reproducibility Addition of an appendix on embryological structures and their derivatives help in quick recall
 Core competencies prescribed by the MCI are covered and competency codes are included in the text Online Features Complimentary access to
 online animations, chapter-wise image bank along with the complete e-book Thorough revision of the chapters on cell division and gametogenesis,
 extraembryonic membranes, developments of face, nose and palate; cardiovascular system, urogenital system Core competencies prescribed by the
 MCI are covered and competency codes are included in the text
Biomedical Signal and Image Processing in Patient Care McGraw Hill Professional
 Having now come of age, telemedicine has the potential of having a greater impact on the future of medicine than any other modality. Telemedicine,

in the final analysis, brings reality to the vision of an enhanced accessibility of medical care and a global network of healthcare, which was not even
 imagined two decades ago. Today, the field of telemedicine has expanded rapidly and is likely to assume greater importance in healthcare delivery in
 the coming times. To address the developing trend of telemedicine applications in both urban and rural areas throughout the world, this book has
 been designed to discuss different technologies which are being applied in the field of telemedicine and their applications including advances in
 wireless technologies, the use of fibre optics in telecommunication, availability of broadband Internet, digital imaging technologies and compressed
 video techniques that have eliminated the problems of telemedicine and also reduced the cost. Starting with the basic hospital based telemedicine
 system and leading to mHealth, teleHealth and eHealth, the book covers as to how various physiological signals are acquired from the body,
 processed and used for monitoring the patients anywhere anytime. The book is primarily intended for undergraduate and postgraduate students of
 Biomedical Engineering, Biomedical Instrumentation, Computer Science and Information Technology and Hospital Management and Nursing. KEY
 FEATURES • Covers all aspects of telemedicine technology, including medical devices, telecommunications, networking and interfacing techniques •
 Provides step-by-step coverage on how to set up a telemedicine centre • Includes broad application areas of telemedicine • Covers essentials of
 telemedicine including mHealth, eHealth and teleHealth • Provides abbreviations/acronyms and glossary of commonly used terms in telemedicine
Vitiligo Springer

The Circuit Designer's Companion covers the theoretical aspects and practices in analogue and digital circuit design. Electronic circuit design involves

designing a circuit that will fulfill its specified function and designing the same circuit so that every production model of it will fulfill its specified function, and no other undesired and unspecified function. This book is composed of nine chapters and starts with a review of the concept of grounding, wiring, and printed circuits. The subsequent chapters deal with the passive and active components of circuitry design. These topics are followed by discussions of the principles of other design components, including linear integrated circuits, digital circuits, and power supplies. The remaining chapters consider the vital role of electromagnetic compatibility in circuit design. These chapters also look into safety, design of production, testability, reliability, and thermal management of the designed circuit. This book is of great value to electrical and design engineers.

Characterization of Polymer Blends Karger Medical and Scientific Publishers

The aim of this atlas is to provide detailed and comprehensive, easy-to-use information, sufficient to perform trichoscopy in clinical practice. From basics to advanced knowledge, everything in one book. In this sense it is rather an "illustrated textbook" than solely an atlas. It includes evidence-based information, acknowledged algorithms, which help easy diagnosis and "take home messages", which aid memorizing specific features of diverse diseases. The atlas consists of two major parts. In the first part the authors describe structures and patterns seen in trichoscopy. The second part consists of detailed description of characteristic trichoscopy features of diverse diseases of hair and scalp. Consecutive chapters illustrate genetic hair disorders, acquired hair loss and scalp diseases.

GROUND BREAKING INVENTIONS IN INFORMATION AND COMMUNICATION TECHNOLOGY McGraw Hill Professional

This book constitutes the refereed proceedings of the 17th Industrial Conference on Advances in Data Mining, ICDM 2017, held in New York, NY, USA, in July 2017. The 27 revised full papers presented were carefully reviewed and selected from 71 submissions. The topics range from theoretical aspects of data mining to applications of data mining, such as in multimedia data, in marketing, in medicine, and in process control in industry and society.

Obesity in Childhood and Adolescence CRC Press

Compiled by the editor of Dekker's distinguished Chromatographic Science series, this reader-friendly reference is as a unique and stand-alone guide for anyone requiring clear instruction on the most frequently utilized analytical instrumentation techniques. More than just a catalog of commercially available instruments, the chapters are wri

Troubleshooting Electronic Equipment: Includes Repair and Maintenance, Second Edition Academic Press

In healthcare systems, medical devices help physicians and specialists in diagnosis, prognosis, and therapeutics. As research shows, validation of medical devices is significantly optimized by accurate signal processing. Biomedical Signal and Image Processing in Patient Care is a pivotal reference source for progressive research on the latest development of applications and tools for healthcare systems. Featuring extensive coverage on a broad range of topics and perspectives such as telemedicine, human machine interfaces, and multimodal data fusion, this publication is ideally designed for academicians, researchers, students, and practitioners seeking current scholarly research on real-life technological inventions.

Biosensors and Nanotechnology McGraw Hill Professional

Two of the most important yet often overlooked aspects of a medical device are its usability and accessibility. This is important not only for health care providers, but also for older patients and users with disabilities or activity limitations. Medical Instrumentation: Accessibility and Usability Considerations focuses on how lack of usabi

Engaged Fatherhood for Men, Families and Gender Equality Springer

Electronic Equipment are used in various activities. This proliferation has resulted in a demand for and a corresponding shortage of qualified technicians for repair and maintenance. This book covers devices and components related to equipment like test instruments, medical instruments, digital equipment, microcomputers and microprocessor-based equipment. The reader will quickly learn the systematic procedures for identifying causes of faults and the practical methods of repairing them.

Handbook of Analytical Instruments Academic Press

This aim of this open access book is to launch an international, cross-disciplinary conversation on fatherhood engagement. By integrating perspective from three sectors -- Health, Social Policy, and Work in Organizations -- the book offers a novel perspective on the benefits of engaged fatherhood for men, for families, and for gender equality. The chapters are crafted to engaged broad audiences, including policy makers and organizational leaders, healthcare practitioners and fellow scholars, as well as families and their loved ones.

Biomedical Instrumentation and Measurements Tata McGraw-Hill Education

One of the most comprehensive books in the field, this import from TATA McGraw-Hill rigorously covers the latest developments in medical imaging systems, gamma camera, PET camera, SPECT camera and lithotripsy technology. Written for working engineers, technicians, and graduate students, the book includes of hundreds of images as well as detailed working instructions for the newest and more popular instruments used by biomedical engineers today.

TELEMEDICINE TECHNOLOGY AND APPLICATIONS (MHEALTH, TELEHEALTH AND EHEALTH) PHI Learning Pvt. Ltd.

Charge pumps are finding increased attention and diversified usage in the new era of nanometer-generation chips used in different systems. This book explains the different architectures and requirements for an efficient charge pump design and explains each step in detail. It's filled with extra hands-on design information, potential pitfalls to avoid, and practical ideas harnessed from the authors' extensive experience designing charge pumps.

Printed Circuit Boards Springer Science & Business Media

Analytical Instrumentation offers powerful qualitative and quantitative techniques for analysis in chemical, pharmaceutical, clinical, food-processing laboratories and oil refineries. It also plays a critical role in the monitoring and control of environment pollution. Over the years, this field has become extremely sophisticated. Today, microcontrollers and personal computers have been integrated into analytical instruments. This has brought in automation, efficiency and precision in analytical instrumentation. To keep users abreast of such advances, this edition of the Handbook of Analytical Instruments describes the principles and building blocks of analytical instrumentation. Recent advances in bio-sensors, gamma spectrometry, electron

spin resonance (ESR) spectrometry, visualization methods for electrophoresis and several other tools and techniques of analytical instrumentation have been covered. In order to ensure that readers make the right decision, in terms of the instrument that best meets their requirements, the book includes a discussion of analytical instruments from various manufacturers. Useful for... Supervisors and technicians in clinical, pharmaceutical, food-processing laboratories and oil refineries. Personnel concerned with the monitoring and control of environmental pollution Service and maintenance engineers Post-graduate students of physics and chemistry undergoing courses in instrument analysis Students of instrumentation, electronics and chemical engineering

Advances in Data Mining. Applications and Theoretical Aspects Springer Science & Business Media

Advances in computers and communications have revolutionised the way we live. This has happened in a short span of sixty-five years. Today we wonder how people lived without access to mobile phones and the Internet. • This book seeks to answer the following questions lucidly to a non-specialist general reader: • How did this revolution happen? • What groundbreaking inventions led to this revolution? • Why are they groundbreaking inventions? • Who were the innovators and inventors of these technologies? • What led them to these inventions? Fifteen groundbreaking inventions: Fortran, Integrated Circuits, Relational Database Management Systems, Local Area Networks, Personal Computers, Public Key Encryption, Computer Graphics, Internet, GPS, World Wide Web, Search Engines, Digitisation and Compression of Multimedia, Mobile Computing, Cloud Computing, and Deep Learning (AI) are described cogently by Professor V. Rajaraman, a doyen of Computer Science education and research in India. TARGET AUDIENCE • Students, academicians, professionals in the field of ICT • Anyone who wants to know about ICT

Ewing's Analytical Instrumentation Handbook, Fourth Edition John Wiley & Sons

What drives the human appetite? Two leading scientists share their cutting-edge research to show how we can gain control over what, when, and how much we eat.

Dermatology in Public Health Environments National Academies Press

Obesity in childhood and adolescence has reached epidemic proportions in all industrialized countries around the world. Its impact on individual lives as well as on health economics has to be recognized by physicians and the public alike. Among the most common consequences of obesity in the adolescent are hypertension, dyslipidemia, back pain and psychosocial problems. Therapeutic strategies include psychological and family therapy, lifestyle/behavior modification and nutrition education. The role of regular exercise and exercise programs is emphasized. Surgical procedures and drugs used in adult obesity are still not generally recommended for obese adolescents. This book aims to increase physicians knowledge and understanding of obesity in childhood and adolescence as well as to further public awareness of the health burden and economic dimension of obesity at a young age. Several chapters deliver insights into the basic understanding of which factors contribute to or prevent the development of overweight and obesity in young people. Other contributions provide tools for the clinician to manage the care of the child and adolescent with overweight/obesity. In addition, knowledge from the latest scientific studies on the molecular biology of obesity is also presented.

Charge Pump Circuit Design McGraw Hill Professional

Handbook of Vegetables and Vegetable Processing, Second Edition is the most comprehensive guide on vegetable technology for processors, producers, and users of vegetables in food manufacturing. This complete handbook contains 42 chapters across two volumes, contributed by field experts from across the world. It provides contemporary information that brings together current knowledge and practices in the value-chain of vegetables from production through consumption. The book is unique in the sense that it includes coverage of production and postharvest technologies, innovative processing technologies, packaging, and quality management. Handbook of Vegetables and Vegetable Processing, Second Edition covers recent developments in the areas of vegetable breeding and production, postharvest physiology and storage, packaging and shelf life extension, and traditional and novel processing technologies (high-pressure processing, pulse-electric field, membrane separation, and ohmic heating). It also offers in-depth coverage of processing, packaging, and the nutritional quality of vegetables as well as information on a broader spectrum of vegetable production and processing science and technology. Coverage includes biology and classification, physiology, biochemistry, flavor and sensory properties, microbial safety and HACCP principles, nutrient and bioactive properties In-depth descriptions of key processes including, minimal processing, freezing, pasteurization and aseptic processing, fermentation, drying, packaging, and application of new technologies Entire chapters devoted to important aspects of over 20 major commercial vegetables including avocado, table olives, and textured vegetable proteins This important book will appeal to anyone studying or involved in food technology, food science, food packaging, applied nutrition, biosystems and agricultural engineering, biotechnology, horticulture, food biochemistry, plant biology, and postharvest physiology.

Trichoscopy John Wiley & Sons

Provides a broad range of information from basic principles to advanced applications of biosensors and nanomaterials in health care diagnostics This book utilizes a multidisciplinary approach to provide a wide range of information on biosensors and the impact of nanotechnology on the development of biosensor-based health care applications is addressed. Nanomaterial applications in biosensors and diagnostics are included, covering the application of nanoparticles, magnetic nanomaterials, quantum dots, carbon nanotubes, graphene, and molecularly imprinted nanostructures. The topic of organ-specific health care systems utilizing biosensors is also incorporated to provide deep insight into the very recent advances in disease diagnostics. Biosensors and Nanotechnology: Applications in Health Care Diagnostics is comprised of 15 chapters that are presented in four sections and written by 33 researchers who are actively working in Germany, the United Kingdom, Italy, Turkey, Denmark, Finland, Romania, Malaysia and Brazil. It covers biomarkers in healthcare; microfluidics in medical diagnostics; SPR-based biosensor techniques; piezoelectric-based biosensor technologies; MEMS-based cell counting methods; lab-on-chip platforms; optical applications for cancer cases; and more. Discusses the latest technology and advances in the field of biosensors and their applications for healthcare diagnostics Particular focus on biosensors for cancer Summarizes research of the last 30 years, relating it to state-of-the-art technologies Biosensors and Nanotechnology: Applications in Health Care Diagnostics is an excellent book for researchers, scientists, regulators, consultants, and engineers in the field, as well as for graduate students studying the subject.

Analytical Instrumentation Elsevier

The Handbook of Analytical Instruments offers you a complete guide to the principles and building blocks of today's high-tech instruments, so you can select the right analytical tools to optimize your projects and research. This expert resource takes you through flame photometers, radiochemical instruments, automated chemical analysis systems, blood gas analyzers, digital circuits, and much more. --From publisher's description.

Eat Like the Animals John Wiley & Sons

Deep Learning (DL) is a method of machine learning, running over Artificial Neural Networks, that uses multiple layers to extract high-level features from large amounts of raw data. Deep Learning methods apply levels of learning to transform input data into more abstract and composite information. Handbook for Deep Learning in Biomedical Engineering: Techniques and Applications gives readers a complete overview of the essential concepts of Deep Learning and its applications in the field of Biomedical Engineering. Deep learning has been rapidly developed in recent years, in terms of both methodological constructs and practical applications. Deep Learning provides computational models of multiple processing layers to learn and represent data with higher levels of abstraction. It is able to implicitly capture intricate structures of large-scale data and is ideally suited to many of the hardware architectures that are currently available. The ever-expanding amount of data that can be gathered through biomedical and clinical information sensing devices necessitates the development of machine learning and AI techniques such as Deep Learning and Convolutional Neural Networks to process and evaluate the data. Some examples of biomedical and clinical sensing devices that use Deep Learning include:

Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Ultrasound, Single Photon Emission Computed Tomography (SPECT), Positron Emission Tomography (PET), Magnetic Particle Imaging, EE/MEG, Optical Microscopy and Tomography, Photoacoustic Tomography, Electron Tomography, and Atomic Force Microscopy. Handbook for Deep Learning in Biomedical Engineering: Techniques and Applications provides the most complete coverage of Deep Learning applications in biomedical engineering available, including detailed real-world applications in areas such as computational neuroscience, neuroimaging, data fusion, medical image processing, neurological disorder diagnosis for diseases such as Alzheimer's, ADHD, and ASD, tumor prediction, as well as translational multimodal imaging analysis. Presents a comprehensive handbook of the biomedical engineering applications of DL, including computational neuroscience, neuroimaging, time series data such as MRI, functional MRI, CT, EEG, MEG, and data fusion of biomedical imaging data from disparate sources, such as X-Ray/CT Helps readers understand key concepts in DL applications for biomedical engineering and health care, including manifold learning, classification, clustering, and regression in neuroimaging data analysis Provides readers with key DL development techniques such as creation of algorithms and application of DL through artificial neural networks and convolutional neural networks Includes coverage of key application areas of DL such as early diagnosis of specific diseases such as Alzheimer's, ADHD, and ASD, and tumor prediction through MRI and translational multimodality imaging and biomedical applications such as detection, diagnostic analysis, quantitative measurements, and image guidance of ultrasonography

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