During gastrulation, tissue layers are formed and the overall body plan is established. This book is the definitive guide to this vitally important period in embryonic development, providing authoritative and up to date information that includes the first comprehensive integration of species comparison, cell movements and patterning events, the roles of individual genes and gene families, and the evolution of gastrulation.

Nakamura loves a boy in his class--now he just has to keep himself together! Nakamura is a shy boy who falls in love at first sight with another boy--his dreamy high school classmate Hirose. But there's a problem: they haven't met yet. And Nakamura is a total spaz who might bungle things before they even begin! In this endearing Boy's Love comedy about the trials of high school, follow Nakamura's hilarious attempts to cling to happiness.

World War I created a set of forces that affected the political arrangements and economies of all the countries involved. This period in global economic history between World War I and II offers rich material for studying international monetary and sovereign debt policies. Debt and Entanglements between the Wars focuses on the experiences of the United States, United Kingdom, four countries in the British Commonwealth (Australia, New Zealand, Canada, Newfoundland), France, Italy, Germany, and Japan, offering unique insights into how political and economic interests influenced alliances, defaults, and the unwinding of debts. The narratives presented show how the absence of effective international collaboration and resolution mechanisms inflicted damage on the global economy, with disastrous consequences.

Nanoparticle technology, which handles the preparation, processing, application and characterisation of nanoparticles, is a new and revolutionary technology. It becomes the core of nanotechnology as an extension of the conventional Fine Particle / Powder Technology. Nanoparticle technology plays an important role in the implementation of nanotechnology in many engineering and industrial fields including electronic devices, advanced ceramics, new batteries, engineered catalysts, functional paint and ink, Drug Delivery System, biotechnology, etc.; and makes use of the unique properties of the nanoparticles which are completely different from those of the bulk materials. This new handbook is the first to explain complete aspects of nanoparticles with many application examples showing their advantages and advanced development. There are handbooks which briefly mention the nanosized particles or their related applications, but no handbook describing the complete aspects of nanoparticles has been published so far. The handbook elucidates of the basic properties of nanoparticles and various nanostructural materials with their characterisation methods in the first part. It also introduces more than 40 examples of practical and potential uses of nanoparticles in the later part dealing with applications. It is intended to give readers a clear picture of nanoparticles as well as new ideas or hints on their applications to create new materials or to improve the performance of the advanced functional materials developed with the nanoparticles. * Introduces all aspects of nanoparticle technology, from the fundamentals to applications. * Includes basic information on the preparation through to the characterization of nanoparticles from various viewpoints * Includes information on nanostructures, which play an important role in practical applications.

The single most comprehensive resource for environmental microbiology Environmental microbiology, the study of the roles that microbes play in all planetary environments, is one of the most important areas of scientific research. The Manual of Environmental Microbiology, Fourth Edition, provides comprehensive coverage of this critical and growing field. Thoroughly updated and revised, the Manual is the definitive reference for information on microbes in air, water, and soil and their impact on human health and welfare. Written in accessible, clear prose, the manual covers four broad areas: general methodologies, environmental public health microbiology, microbial ecology, and biodegradation and biotransformation. This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community. Specifically, this new edition of the Manual Contains completely new sections covering microbial risk assessment, quality control, and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of Environmental Microbiology is an essential reference for environmental microbiologists, microbial ecologists, and environmental engineers, as well as those interested in human diseases, water and wastewater treatment, and biotechnology.

This research monograph presents the interacting factors among physical health, mental health, and a long-quality life. We invited leading researchers from gerontology, psychology, medicine, nursing, and economics.

Over the past century, Buddhism has come to be seen as a world religion, exceeding Christianity in longevity and, according to many, philosophical wisdom. Buddhism has also increasingly been described as strongly ethical, devoted to nonviolence, and dedicated to bringing an end to human suffering. And because it places such a strong emphasis on rational analysis, Buddhism is considered more compatible with science than the other great religions. As such, Buddhism has been embraced in the West, both as an alternative religion and as an alternative philosophy. This volume provides a unique introduction to Buddhism by examining categories essential for a nuanced understanding of its traditions. Each of the fifteen essays here shows students how a fundamental term—from art to word—illuminates the practice of Buddhism, both in traditional Buddhist societies and in the realms of modernity. Apart from Buddha, the list of terms in this collection deliberately includes none that are intrinsic to the religion. Instead, the contributors explore terms that are important for many fields and that invite interdisciplinary reflection. Through incisive discussions of topics ranging from practice, power, and pedagogy to ritual, history, sex, and death, the authors offer new directions for the understanding of Buddhism, taking constructive and sometimes polemical positions in an effort both to demonstrate the shortcomings of assumptions about the religion and the potential power of revisionary approaches. Following the tradition of Critical Terms for Religious Studies, this volume is not only an invaluable resource for the classroom but one that belongs on the short list of essential books for anyone seriously interested in Buddhism and Asian religions.
residents in training and fully trained surgeons seeking recertification. The textbook also supports the mission of the ASCRS to be the world’s authority on colon and rectal disease. The combination of junior and senior authors selected from the membership of the ASCRS for each chapter will provide a comprehensive summary of each topic and allow the touch of experience to focus and temper the material. This approach should provide the reader with a very open-minded, evidence-based approach to all aspects of colorectal disease. Derived from the textbook, The ASCRS Manual of Surgery of the Colon and Rectum offers a “hands on” version of the textbook, written with the same comprehensive, evidence-based approach but distill to the clinical essentials. In a handy pocket format, readers will find the bread and butter information for the broad spectrum of practice. In a consistent style, each chapter outlines the condition or procedure being discussed in a concise outline format - easy to read, appropriately illustrated and referenced.

Invasive Cardiology: A Manual for Cath Lab Personnel, Third Edition was recently honored with 4 Stars from Doody’s Book Review! Completely revised and updated, the Third Edition of Invasive Cardiology: A Manual for Cath Lab Personnel, is written specifically for nurses, technologists, and allied health personnel working in the catheterization laboratory. Topics cover all aspects of the catheterization laboratory including cardiovascular anatomy, radiography, angiography, technical duties of the staff, right and left heart catheterization, PCI, invasive ultrasound, valvuloplasty, hemostasis, pediatric interventions, pharmacology, emergency procedures, and many others.

Head and Neck Imaging, by Drs. Peter M. Som and Hugh D. Curtin, delivers the encyclopedic and authoritative guidance you’ve come to expect from this book - the expert guidance you need to diagnose the most challenging disorders using today’s most accurate techniques. New state-of-the-art imaging examples throughout help you recognize the imaging presentation of the full range of head and neck disorders using PET, CT, MRI, and ultrasound. Enhanced coverage of the complexities of embryology, anatomy, and physiology, including original color drawings and new color anatomical images from Frank Netter, help you distinguish subtle abnormalities and understand their etiologies. Compare your imaging findings to thousands of crystal-clear examples representing every type of head and neck disorder. Gain an international perspective from global authorities in the field. Find information quickly with a logical organization by anatomic region. Master the latest approaches to image-guided biopsies and treatments. Utilize PET/CT scanning to its fullest potential, including head and neck cancer staging, treatment planning, and follow up to therapy. Visualize head and neck anatomy better than ever before with greatly expanded embryology, physiology and anatomy content, including original drawings and new color anatomical images. Grasp the finer points of head and neck imaging quickly with more images, more detail in the images, and more anatomical atlases with many examples of anatomic variants.

Offers an authoritative synthesis of knowledge of the planet Mercury after the MESSENGER mission, for researchers and students in planetary science.

"CNC programmers and service technicians will find this book a very useful training and reference tool to use in a production environment. Also, it will provide the basis for exploring in great depth the extremely wide and rich field of programming tools that macros truly are."--BOOK JACKET.

The rapid advances in elucidating the biosynthesis and mode of action of the plant hormone ethylene, as well as its involvement in the regulation of the whole plant physiology, made imperative the organization of a series of dedicated conferences. This volume contains the main lectures and poster contributions presented at the 7th International Symposium on the Plant Hormone Ethylene held in Pisa in 2006.

The consumer price index (CPI) measures the rate at which prices of consumer goods and services change over time. It is used as a key indicator of economic performance, as well as in the setting of monetary and socio-economic policy such as indexation of wages and social security benefits, purchasing power parities and inflation measures. This manual contains methodological guidelines for statistical offices and other agencies responsible for constructing and calculating CPIs, and also examines underlying economic and statistical concepts involved. Topics covered include: expenditure weights, sampling, price collection, quality adjustment, sampling, price indices calculations, errors and bias, organisation and management, dissemination, index number theory, durables and user costs.

This book describes in detail a unique and very precise operative technique that uses autologous cartilage/bone grafts for the reconstruction of load-bearing joint surfaces and for dowelling of non-unions. The technique, employing diamond instruments and a wet grinding process, has been developed and refined over the past 30 years at the Center for Orthopaedic Sciences (ZOW), first in Bern and later in Munich. A step-by-step description of the method is provided for each indication, with the aid of many high-quality illustrations. Correctly applied, the technique has been very successful in restoring high-level athletes to competition; it can be applied even in “hopeless cases” and offers excellent late results. This guide will be invaluable for orthopaedic surgeons wishing to master this proven and effective approach.

Start a successful career in machining. Metalworking is an exciting field that’s currently experiencing a shortage of qualified machinists—and there’s no time like the present to capitalize on the recent surge in manufacturing and production opportunities. Covering everything from lathe operation to actual CNC programming, Machining For Dummies provides you with everything it takes to make a career for yourself as a skilled machinist. Written by an expert offering real-world advice based on experience in the industry, this hands-on guide begins with basic topics like tools, work holding, and ancillary equipment, then goes into drilling, milling, turning, and other necessary metalworking processes. You’ll also learn about robotics and new developments in machining technology that are driving the future of manufacturing and the American economy. Be profitable in today’s competitive manufacturing environment. Set up and operate a variety of computer-controlled and mechanically controlled machines. Produce precision metal parts, instruments, and tools. Become a part of an industry that’s experiencing steady growth. Manufacturing is the backbone of America, and this no-nonsense guide will provide you with valuable information to help you get a foot in the door as a machinist.

This manual captures and summarizes the key elements in management of groin pain, including relevant anatomy, etiologies, diagnostic evaluation tools, imaging, detailed pharmacologic options, interventional modalities and options for operative remediation. The manual separately addresses the management of intrinsic groin pain due to primary disease processes and secondary groin pain due to a prior operation. Current practices, trends in the field, treatment approaches and controversies are addressed. While the primary audience of this book will be general surgeons performing hernia operations and pain management specialists to whom they refer, the SAGES Manual of Groin Pain will serve as a stand alone state-of-the-art resource for all providers who deal with this diagnosis, including primary care providers, sports medicine specialists, gynecologists, urologists, orthopedists, neurologists, physical medicine and rehabilitation specialists, radiologists, physical therapists, industry personnel and importantly, patients who suffer from groin pain who have copious access to health information, but without the filtering, expertise and context provided by the contributors to this manual. This volume also uniquely provides its audience with narrative first-person accounts of some of the most common and challenging causes of pain, so that others can learn from their presentation, pitfalls, successes and failures. The expertise compiled in this manual will give the readers a pragmatic foundation to optimize the diagnosis and management of our patients with this challenging problem.
Manual de referencia que pone el acento en el conocimiento y la comprensión de un área pocas veces abordada desde este punto de vista, introduciendo al lector en la acción terapéutica apoyándose en referencias mecánicas simples y numerosos ejemplos ilustrados. Con un planteamiento original y principalmente pedagógico, se centra en la comprensión funcional del sistema músculo-esquelético: los miembros inferiores, las extremidades superiores, tronco, cuello, cabeza. Esta segunda edición actualiza el estudio de la mecánica aplicada al análisis del cuerpo en sus aspectos estáticos y dinámicos. Una vez abordadas las generalidades, en todas las partes del libro se hace hincapié en las características anatómicas esenciales, resaltando las incidencias prácticas, a las que siguen las consideraciones mecánicas referentes a la movilidad, la estabilidad y las tensiones, proponiéndose además ideas clave. Constituye un material de consulta de interés tanto para estudiantes de la asignatura de Biomecánica, impartida en los primeros cursos de Fisioterapia y que constituye la base fundamental que todo estudiante debe asimilar, como para profesionales. Más de 1000 imágenes ayudan a comprender el comportamiento de estructuras a menudo complejas.

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