and diverse degenerative diseases and dysfunctions, including multiple sclerosis, muscular dystrophy, Parkinson's and Alzheimer's diseases, cardiovascular disorders, and several others. Recognized heavy metals such as lead, mercury, arsenic, cadmium, thallium, and hexavalent chromium are known for enormous toxicity. The immediate vital signs of acute heavy metal exposure include nausea, vomiting, diarrhea, and acute abdominal pain. Mercury has been identified as the most toxic heavy metal, and mercury poisoning is known as acrodynia or pink disease. Similarly, lead, another toxic heavy metal, was at one time an integral part of painting. Metal Toxicology Handbook further explains and discusses the varying attributes of metals, discussing toxicity, safety, and proper human utilization of metals. Beginning with a broad overview of metals, metalloids, redox biology, and neurodegeneration and going further into the roles, benefits, and toxicity of metals with each section, the text contains 28 chapters from eminent researchers and scientists in their respective fields and is a must-have for anyone researching the potential toxicity in metals. Key Features Discusses the pathophysiology of metal toxicity and highlights the benefits of metals. It explains the mechanism and salient features of restoring homeostatic functions in healthy tissues. It highlights dose-dependent beneficial and adverse effects of vanadium safety and toxicity. The initial introductory section provides a broad overview of metals, metalloids, redox biology, and neurodegeneration. The second section discusses the pathology of metal toxicity in two chapters, while the third section highlights the salient and beneficial features of restoring homeostatic homeostasis in two chapters. The fourth section demonstrates the aspect of radionuclides toxicity. In a change of pace, the fifth section discusses the benefits of metals in four chapters. The sixth section, titled "Toxic Manifestations of Diverse Heavy Metals and Metalloids," provides fourteen chapters that discuss the toxicological mechanism and manifestation of individual metals. The editors have created a commentary titled "A Treatise on Metal Toxicity" and summarized a vivid scenario of metal toxicity and its consequences.

Pathophysiology - E-Book

Still the #1 resource for today's pediatric ICU teams, Pediatric Critical Care, 5th Edition covers the entire field, from basic science to cutting-edge clinical applications. Drs. Bradley P. Fuhrman and Jerry J. Zimmerman, accompanied by an expert team of editors and contributors from around the world, bring you today's best information on the current and future landscape of pediatric critical care so you can consistently deliver optimum care to your young patients. Boasts highly readable, concise chapters with hundreds of useful photos, diagrams, algorithms, and clinical pearls. Clear, logical, organ-system approach allows you to focus on the development, function, and treatment of a wide range of disease entities. Includes new content on the expanding use of ultrasound at the bedside and the increase in nursing responsibilities in the PICU. Eighteen new chapters cover topics such as delirium, metabolism, endocrinology, nutrition, nursing, and much more. Features expanded and updated information on critical care communication, professionalism, long-term outcomes, palliative care, ultrasonography, and more. Updated topics in PICU include sepsis, ventilator-induced lung injury, non-invasive ventilation, updated CNS pathophysiology, the 'Erythro', and immunity and infection.

The American Psychiatric Publishing Textbook of Psychosomatic Medicine

The bestselling "Textbook of Pediatric Emergency Medicine" is the most comprehensive text in this specialty. This edition's highlights include new chapters on palpatations, cystic fibrosis, travel-related emergencies and ultrasound, and has a new appendix on practice pathways.

Oh's Intensive Care M anual E-Book

Known for its readability, portability, and global perspective, Holcomb and Ashcraft's Pediatric Surgery remains the most comprehensive, up-to-date, single-volume text in its field. As a technology and techniques continue to evolve, the 7th Edition provides state-of-the-art coverage--both in print and online--of the full range of general surgical and urological problems in infants, children, and adolescents, equipping you to achieve optimal outcomes for every patient. Provides authoritative, practical coverage to help you implement today’s best evidence-based open and minimally invasive techniques, with guidance from internationally recognized experts in the field. Features more than 1,000 high-quality images depicting the visual nuances of surgery for the full range of pediatric and urologic conditions you’re likely to see. Delivers comprehensive updates throughout including the latest advances in managing inguinal hernias and Hydroceles, Impotence Aneurysm and Clival Malignancies, Hirschprung Disease, Diuretal and Intestinal Atresia and Stenosis, Esophageal Atresia, and more.

Atlas of Pediatric Emergency Medicine

A algorithms in Pediatrics uses an algorithm-based approach to various paediatric disorders. Every section presents algorithms based on patient history, physical examination, and laboratory studies, using a step-by-step approach. Clinical evaluation, diagnosis, treatment and management are also included, with clinical pearls throughout and key points at the end of each section, making this an ideal resource for post-graduates and paediatricians.

Principles and Practice of Critical Care Toxicology

Child abuse and suspicious child deaths are very complicated matters for clinicians, pathologists, law enforcement officials and legal professionals to investigate. Meanwhile, the evidence base for forensic pathology, especially in pediatrics, is steadily growing. In Paediatric Forensic Medicine and Pathology, two internationally acclaimed editors have brought together a first class author team who provide an up-to-date, comprehensive, and thorough review of the contemporary problems encountered in practice today. Individual chapters explore the emerging role of imaging in the diagnosis of non-accidental injury and compare recent evidence contrasting sudden infant death and SIDS, the head and neck injury chapter carefully explores the ' shaken baby syndrome' and similar patterns of injury that have recently gained widespread media attention. Special emphasis is given to intervention and assessment procedures, and useful clinical forms are included throughout the book. Whether in a clinical, laboratory, or legal setting, readers dealing with forensic inquiries or who are in preparation for court will find the comprehensive background and evidence base necessary to support their investigations. Paediatric Forensic Medicine and Pathology is an invaluable resource for forensic pathologists, paediatric pathologists, and paediatricians, as well as all practitioners in the judicial and legal, criminal investigation and social services systems that have to deal with such cases.

Problems in Pediatric Drug Therapy

A comprehensive guide to the current practice of pediatric care, this updated edition includes new chapters on complementary and alternative medicine, genetics in primary care, and updated chapters regarding infant and child behavior and development.

Critical Care Toxicology

This issue of Emergency Medicine Clinics focuses on Clinical Toxicology and is edited by Drs. Daniel Lugassy and Silas Smith and includes such topics as Emerging Drugs of Abuse, Pediatric Toxicology; Dosing and Medical Errors and Child Abuse, The Approach to Toxin-Induced Coagulopathy, The Approach to Toxin-Induced Cardiovascular Failure, The Approach to Toxin-Induced Metabolic Acidosis, The Approach to Withdrawal Syndromes, The Approach to Radiation Exposure, and more.

Drug Toxicity and Metabolism in Pediatrics

For nearly 40 years, Oh's Intensive Care M anual has been the quick reference of choice for ICU physicians at all levels of experience. The revised 8th edition maintains this tradition of excellence, providing fast access to practical information needed every day in today's intensive care unit. This bestselling manual covers all aspects of intensive care in sufficient detail for daily practice while keeping you up to date with the latest innovations in the field. Short, to-the-point chapters distill the essential information you need to know for safe, effective care of patients in the ICU. Each topic includes theoretical knowledge, practical methods of treating the condition described, a review of the available evidence, and common pitfalls in treatment and management. Ideal for daily quick reference as well as an efficient review for professional examinations in critical care medicine.

Poisoning in the Modern World

The aim of this text is to examine the physiological development of the fetus. It allows the reader to study the unique pharmacokinetic and metabolic features of newborns and gives specific examples of drug metabolism in the newborn. The purpose of this book is to enhance the current knowledge of pharmacology of the newborn by observing the embryo and placenta in normal and abnormal development, placental transfer of drugs, metabolic pathways, and metabolism of specific drugs such as theophylline, benzodiazepines, and antibiotics. This is a useful book for those involved in pediatric research, pharmacology, toxicology, experimental therapeutics and biology.

Handbook of Child Psychology and Developmental Science, Ecological Settings and Processes