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Textbook of Head and Neck
Anatomy
Surgical and Perioperative
Management of Patients with**

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Anatomic Anomalies

Through case presentations and a question and answer format, Clinical Decisions in Nephrology, Hypertension and Renal Transplantation provides a state of the art, updated reference for the optimal management of patients with diseases of the kidneys, and

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hypertension. This volume starts with the assessment of the patient, focusing on history and physical examination. Subsequently, cases depicting various clinical syndromes and/or diseases are presented, with questions centering on the appropriate diagnostic and treatment strategy. This sets the stage

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for a ‘Socratic approach’ to learning between the attending physician and the house staff or medical student. This is the only book featuring problem-oriented true to life clinical cases in this format to cover nephrology, hypertension and kidney transplantation. Written by renowned

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actively practicing clinicians, this unique reference is both comprehensive and concise and will be of great value to hospitalists and internists, as well as students, and interns/residents rotating in nephrology and internal medicine. Clinical practitioners, in the fields of critical care and hypertension

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specialists would also find this of value. This issue is centered on emergency situations and complications brought about by high fevers. Guest edited by Emilie Calvello and Christian Theodosis, this issue focuses on topics such as: Approach to Dangerous Fever in the Emergency Department, Fever in

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**the Returning Traveler, Drug Induced
Hyperthermic Syndromes Part I:
Hyperthermia in Overdose, Drug
Induced Hyperthermic Syndromes Part
II: Hyperthermia caused by drug
interactions, withdrawal syndromes,
and idiopathic mechanisms, Fever and
Signs of Shock, Fever and Neurologic**

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Abnormalities, Fever and Endocrine Derangements, and Fever in the Post Procedure Patient.

This collection of 60 cases covers the clinically relevant physiology topics that first- and second-year medical students need to know for a first-year physiology course and for USMLE Step 1.

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Organized by body system, the book presents case studies with questions and problems, followed by complete explanations and solutions including diagrams, graphs, and charts. This edition includes four new cases and more illustrations and flowcharts. A companion Website will offer the fully

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searchable online text.

This text emphasizes topics of relevance to medical students - its chapters are condensed, covering only the essentials.

The book incorporates essential pedagogy that includes heading outlines, chapter objectives, review questions and answers. Chapters are

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**also included on mineral metabolism,
acid-base regulation, temperature
regulation and pregnancy.**

**Clinical Decisions in Nephrology,
Hypertension and Kidney
Transplantation**

**Dangerous Fever in the Emergency
Department, An Issue of Emergency**

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**Medicine Clinics,
Guyton and Hall Textbook of Medical
Physiology E-Book**

A Clinical Approach

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are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. Introducing an innovative, systematic approach to understanding differential

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diagnosis, Frameworks for Internal Medicine helps students learn to think like physicians and master the methodology behind diagnosing the most commonly encountered conditions in internal medicine.

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INTRODUCTION TO VETERINARY SCIENCE, Third Edition, provides a solid foundation in this dynamic field for those studying animal and veterinary sciences or preparing for careers as veterinary

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assistants or technicians. The text begins with an overview of cellular and tissue physiology, followed by chapters dedicated to individual body systems to enable easy comprehension. The authors then investigate

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crucial topics such as nutrition, disease, surgeries, cost analysis of procedures, safety, and professionalism. Throughout the text, real-life examples are integrated with chapter material to provide practical context, and

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both small and large animals are featured to expose students to the variety of cases they may encounter in the field. Each chapter opens with a Day in the Life preview that explores relevant applications of

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upcoming content, and chapters conclude with a description of clinical significance. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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This book intends to be an updated compilation of the most important buccal, gastric, intestinal, pulmonary, nasal, vaginal, ocular, skin and blood-brain barrier in vitro models for predicting the permeability of

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drugs. Concepts and Models for Drug Permeability Studies focuses on different approaches and comprises of various models. Each model describes the protocol of seeding and conservation, the application for

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specific drugs, and takes into account the maintenance of physiologic characteristics and functionality of epithelium, from the simplest immortalized cell-based monoculture to the most complex engineered-tissue

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models. Chapters also discuss the equivalence between in vitro cell and tissue models and in vivo conditions, highlighting how each model may provisionally resemble a different drug absorption route. Updated

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information regarding the most recent in vitro models to study the permeability of drugs Short and concise chapters covering all the biological barriers with interest in drug permeability A combination of bibliographic

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information related with individual models and footnote instructions of technical procedures for construction of cell and tissue-based models
Simple and clear scientific content, adaptable for young

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scientists and experimented
researchers

This presentation describes
various aspects of the regulation
of tissue oxygenation, including
the roles of the circulatory
system, respiratory system, and

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blood, the carrier of oxygen within these components of the cardiorespiratory system. The respiratory system takes oxygen from the atmosphere and transports it by diffusion from the air in the alveoli to the blood

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flowing through the pulmonary capillaries. The cardiovascular system then moves the oxygenated blood from the heart to the microcirculation of the various organs by convection, where oxygen is released from

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hemoglobin in the red blood cells and moves to the parenchymal cells of each tissue by diffusion. Oxygen that has diffused into cells is then utilized in the mitochondria to produce adenosine triphosphate (ATP),

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the energy currency of all cells. The mitochondria are able to produce ATP until the oxygen tension or PO_2 on the cell surface falls to a critical level of about 4–5 mm Hg. Thus, in order to meet the energetic needs of

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cells, it is important to maintain a continuous supply of oxygen to the mitochondria at or above the critical PO_2 . In order to accomplish this desired outcome, the cardiorespiratory system, including the blood,

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must be capable of regulation to ensure survival of all tissues under a wide range of circumstances. The purpose of this presentation is to provide basic information about the operation and regulation of the

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cardiovascular and respiratory systems, as well as the properties of the blood and parenchymal cells, so that a fundamental understanding of the regulation of tissue oxygenation is achieved.

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Cell and Tissue based In Vitro
Culture Models
Physiology, E-Book
Gastrointestinal Physiology
Emergent Vascular Access
Concepts and Models for Drug
Permeability Studies

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Combining two separate textbooks entitled Essentials of Human Physiology for Pharmacy and Essentials of Pathophysiology for Pharmacy into one cohesive volume, this new book seamlessly integrates material related to normal human

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physiology and pathophysiology into each chapter. Chapters include: Study objectives at the beginning of each chapter; Summary tables, flow charts, diagrams, and key definitions; Real life case studies to emphasize clinical application and

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stimulate student critical thinking;
An emphasis on the rationale for
drug therapy; Simple,
straightforward language. Written
by authors with extensive teaching
experience in the areas, Essentials of
Human Physiology and

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Pathophysiology for Pharmacy and Allied Health is a concise learning instrument that will guide students in pharmacy and allied health programs.

Concise yet complete in its regional treatment of head and neck anatomy,

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this acclaimed text features more than 200 superb illustrations and tables designed to facilitate its use in the dental classroom and practice. Completely updated, this Third Edition includes a full-color mini atlas with new color plates,

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expanded coverage of cranial nerves, plus new images and illustrations. Textbook of Head and Neck Anatomy features a detailed description of the oral cavity from an oral examination point of view, clinical considerations that tie the

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significance of anatomy to practice, a discussion of the anatomical basis of local anesthesia, and an embryological account of head and neck development.

Physiology is a comprehensive presentation of core physiologic

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concepts with a focus on mechanisms. Renowned physiology instructor Linda S. Costanzo covers important concepts in the field, both at the organ system and cellular levels. Easy to read and user-friendly, the revised fourth edition

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stresses essential and relevant content with absolute clarity and includes concise step-by-step explanations complemented by numerous tables and abundant illustrations. It provides information on the underlying principles of

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cellular physiology, the autonomic nervous system, and neurophysiology, as well as the cardiovascular, respiratory, renal, acid-base, gastrointestinal, endocrine, and reproductive organ systems. This book is ideal as both a

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textbook and as a review guide for the boards. Provides step-by-step explanations and easy-to-follow diagrams clearly depicting physiologic principles. Integrates equations and sample problems throughout the text. Presents chapter

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summaries for quick overviews of important points. Contains boxed Clinical Physiology Cases to provide you with more clinical examples and a more thorough understanding of application. Provides questions at the end of

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each chapter for an extensive review of the material and to reinforce your understanding and retention. Offers a full-color design and all full-color illustrations throughout. Features increased coverage of pathophysiology in the

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neurophysiology, gastrointestinal, renal, acid-base, and endocrine chapters to emphasize this important component of the USMLE exam. Incorporates further practice in solving physiology equations through the inclusion of additional

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problem-solving questions
throughout the text.

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