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The human body is composed of several systems and organs, consisting of millions of cells that need relatively stable conditions to function and contribute to

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the survival of the body as a whole. The maintenance of stable conditions for the cells against the variations of the external environment is an essential function of the body and is called homeostasis. As a consequence of the loss of homeostasis, a disease is manifested. This book aims to provide the reader with an up-to-date

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molecule, cell, tissue, organ, muscle, sinew, and bone that we call life can be a thing of breathtaking beauty and humbling perfection. Anatomy & Physiology For Dummies combines anatomical terminology and function so you'll learn not only names and

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terms but also gain an understanding of how the human body works.

Whether you're a student, an aspiring medical, healthcare or fitness professional, or just someone who's curious about the human body and how it works, this book offers you a

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fun, easy way to get a handle on the basics of anatomy and physiology. Understand the meaning of terms in anatomy and physiology Get to know the body's anatomical structures—from head to toe Explore the body's systems and how they interact to keep us alive

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Gain insight into how the structures and systems function in sickness and health Written in plain English and packed with beautiful illustrations, Anatomy & Physiology For Dummies is your guide to a fantastic voyage of the human body.

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Gas Bubble Dynamics in the Human Body provides a broad range of professionals, from physicians working in a clinic, hospital or hyperbaric facility, to physical scientists trying to understand and predict the dynamics of gas bubble

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behavior in the body, with an interdisciplinary perspective on gas-bubble disease. Both iatrogenic and decompression-induced gas bubbles are considered. The basic medical and physiological aspects are described first, in plain language, with

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numerous illustrations that facilitate an intuitive grasp of the basic underlying medicine and physiology. Current issues in the field, particularly microbubbles and microparticles, and their possible role in gas-bubble disease are included.

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The physical and mathematical material is given at several levels of sophistication, with the "hard-core" math separated out in sections labelled "For the Math Mavens", so that the basic concepts can be grasped at a descriptive level. The field is large

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and multi-disciplinary, so that some of the discussion that is at a greater depth is given separately in sections labelled "In Greater Detail". Skipping these sections for whatever reason, shouldn't materially hamper acquiring an overall appreciation of

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the field. Demonstrates how physical and mathematical tools help to solve underlying problems across physiology and medicine Helps researchers extend their competence and flexibility to the point that they can personally contribute to the field

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of hyperbaric medicine and physiology, or to other related biological problems that may interest them Provides clinicians with explicit examples of how mathematical modelling can be integrated into clinical treatment and decision-

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making

Human anatomy, Physiology Chapter 1. An introduction to the human body Chapter 2. The chemical level of organisation Chapter 3. The cellular level of organisation Chapter 4. The tissue level of organisation Chapter 5.

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The integumentary system Chapter 6.
The skeletal system: bone tissue
Chapter 7. The skeletal system: the
axial skeleton Chapter 8. The skeletal
system: the appendicular skeleton
Chapter 9. Joints Chapter 10.
Muscular tissue Chapter 11. The

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muscular system Chapter 12. Nervous tissue Chapter 13. The spinal cord and spinal nerves Chapter 14. The brain and cranial nerves Chapter 15. The autonomic nervous system Chapter 16. Sensory, motor, and integrative systems Chapter 17. The

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special senses Chapter 18. The endocrine system Chapter 19. The cardiovascular system: the blood Chapter 20. The cardiovascular system: the heart Chapter 21. The cardiovascular system: blood vessels and haemodynamics Chapter 22. The

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lymphatic system and immunity

Chapter 23. The respiratory system

Chapter 24. The digestive system

Chapter 25. Metabolism and nutrition

Chapter 26. The urinary system

Chapter 27. Fluid, electrolyte, and

acid - base homeostasis Chapter 28.

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The reproductive systems Chapter 29.
Development and inheritance.

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

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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 flowing through the pulmonary capillaries. The

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cardiovascular system then moves the oxygenated blood from the heart to the microcirculation of the various organs by convection, where oxygen is released from hemoglobin in the red blood cells and moves to the parenchymal cells of each tissue by

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diffusion. Oxygen that has diffused into cells is then utilized in the mitochondria to produce adenosine triphosphate (ATP), the energy currency of all cells. The mitochondria are able to produce ATP until the oxygen tension or PO_2 on

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the cell surface falls to a critical level of about 4–5 mm Hg. Thus, in order to meet the energetic needs of 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,

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the cardiorespiratory system, including the blood, 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

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regulation of the 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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The Human Body

An Integrated Vision

The Human Body: Concepts of
Anatomy and Physiology

All you need to know about the gross,
glorious human body!

Energy Use

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In this book the author, a Harvard evolutionary biologist presents an account of how the human body has evolved over millions of years, examining how an increasing disparity between the needs of

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Stone Age bodies and the realities of the modern world are fueling a paradox of greater longevity and chronic disease. It illuminates the major transformations that contributed key adaptations to

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the body: the rise of bipedalism; the shift to a non-fruit-based diet; the advent of hunting and gathering, leading to our superlative endurance athleticism; the development of a very large brain; and the

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incipience of cultural proficiencies. The author also elucidates how cultural evolution differs from biological evolution, and how our bodies were further transformed during the

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Agricultural and Industrial Revolutions. While these ongoing changes have brought about many benefits, they have also created conditions to which our bodies are not entirely adapted, the author

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argues, resulting in the growing incidence of obesity and new but avoidable diseases, such as type 2 diabetes. The author proposes that many of these chronic illnesses persist and in some

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cases are intensifying because of 'dysevolution,' a pernicious dynamic whereby only the symptoms rather than the causes of these maladies are treated. And finally, he advocates the use of

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evolutionary information to help nudge, push, and sometimes even compel us to create a more salubrious environment. -- From publisher's web site.
The new edition of Bruce

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Wingerd's The Human Body: Concepts of Anatomy and Physiology helps encourage learning through concept building, and is truly written with the student in mind. Learning Concepts divide each

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chapter into easily absorbed subunits of information, making learning more achievable. Since students in a one-semester course may have little experience with biological and chemical

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concepts, giving them tools such as "concept statements," "concept check" questions, and a "concept block study sheet" at the end of each chapter help them relate complex ideas to simple everyday events. The

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book also has a companion Student Notebook and Study Guide (available separately) that reinvents the traditional study guide by giving students a tool to help grasp information in class and then

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reinforce learning outside of class. With additional, powerful options like the ADAM Interactive Anatomy Online Student Lab Activity Guide, students have access to learning activities to help them

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study, understand, and retain critical course information. This book covers the latest information on the anatomic features, underlying physiologic mechanisms, and treatments for diseases of the

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heart. Key chapters address animal models for cardiac research, cardiac mapping systems, heart-valve disease and genomics-based tools and technology. Once again, a companion of supplementary

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An all-in-one visual guide to human anatomy with encyclopedic coverage from

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bones and muscles to systems and processes. This in-depth manual to the human body's physical structure, chemical workings, and potential problems is a must-have reference to help further your studies or knowledge of how our bodies work. Each

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page of The Human Body Book, updated to reflect the latest medical information, is illustrated with colourful and comprehensive diagrams, which are thoroughly annotated to take you right into the cells and fibres that are responsible for keeping the

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human body ticking. The opening chapter, Integrated Body, explains how the parts of the body work together at various levels of size and hierarchy to produce the living whole. It also contains an overview of the major body systems, enlivened by real-

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life 3D medical scans of the entire body. The chapters that follow provide coverage of the body function by function, system by system. Eleven main body systems are covered in turn, with each section ending on common injuries, diseases, and disorders

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afflicting that system. The book concludes with a chapter on Growth and Development which looks in detail at how the body changes over the course of a human lifespan.

The Model Rules of Professional Conduct provides an up-to-date

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resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this

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volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given

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situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.

Offering a study of biological, biomedical and biocultural

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approaches, this book is suitable for researchers, professors and graduate students across the interdisciplinary area of human development. It is presented in the form of lectures to facilitate student programming.

The Human Body: Linking

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Structure and Function provides knowledge on the human body's unique structure and how it works. Each chapter is designed to be easily understood, making the reading interesting and approachable. Organized by organ system, this succinct

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publication presents the functional relevance of developmental studies and integrates anatomical function with structure. Focuses on bodily functions and the human body's unique structure Offers insights into disease and disorders and

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their likely anatomical origin
Explains how developmental lineage influences the integration of organ systems

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