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Speaking for the Dead is an incisive examination of the highly topical and often controversial issues surrounding the use of human cadavers in scientific research. Fully revised and updated to include recent developments in this area, this new edition incorporates the repeated organ scandals in the UK, body parts scandals in the United States, and the abuses of bodies in China. The book provides new material on neuroimaging, neuroethics and Alzheimer's disease and the major ethical issues they raise for society, in addition to discussing plastination in the form of BodyWorlds types of exhibitions. As human anatomists and bioethicists, the authors offer a unique perspective on these issues, crossing the boundaries between clinical, medical, legal and ethical concerns. Their exploration of both historical and contemporary data results in a clear and comprehensive examination of issues at the forefront of bioethics. With its clear writing style and use of non-technical language Speaking for the Dead will be an essential book for all those interested in bioethics, an area which continues to increase in significance with the development of new techniques for the manipulation of human cadavers. As human anatomists and bioethicists, the authors offer a unique perspective on these issues, crossing the boundaries between clinical, medical, legal and ethical concerns. Their exploration of historical developments as well as their analyses of recent case studies result in a pertinent and comprehensive examination of issues at the forefront of bioethics. Human Biology is a textbook on human biology and presents facts and details about a number of diseases as well as organ transplants, antibiotics, and anesthetics. Other topics include world food, drug addiction, smoking, and lung cancer and the effects of radioactivity. The important subject of environmental pollution is also discussed. Some of the common disorders and diseases of the various systems are mentioned at the end of the chapters in addition to the characteristics of certain specified diseases. Comprised of 34 chapters, this book begins with an overview of man and his origins, as well as human biology and the human body. The discussion then turns to cell structure and tissues; the skin; the skeletal system; and joints. The biochemistry of foodstuffs is also examined, along with digestion and the alimentary system; the cardiovascular system; maintenance of body temperature; the genital system and reproduction; and hormones and the endocrine system. In addition, the book considers antibiotics, drugs, and anesthetics, as well as vectors and other parasites affecting humans. This monograph is intended for student nurses and potential medical students, as well as for non-science students and general readers who wish to learn something about the human body and its health. This handsome volume is the first photographically illustrated textbook to present for both the student and the working archaeologist the anatomy of the human skeleton and the study of skeletal remains from an anthropological perspective. It describes the skeleton as not just a structure, but a working system in the living body. The opening chapter introduces basics of osteology, or the study of bones, the specialized and often confusing terminology of the field, and methods for dealing scientifically with bone specimens. The second chapter covers the biology of living bone: its structure, growth, interaction with the rest of the body, and response to disease and injury. The remainder of the book is a head-to-foot, structure-by-structure, bone-by-bone tour of the skeleton. More than 400 photographs and drawings and more than 80 tables illustrate and analyze features the text describes. In each chapter structures are discussed in detail so that not only can landmarks of bones be identified, but their functions can be understood and their anomalies identified as well. Each bone's articulating partners are listed, and the sequence of ossification of each bone is presented. Descriptive sections are followed by analyses of applications: how to use specific bones to estimate age, stature, gender, biological affinities, and state of health at the time of the individual's death. Anthropologists, archaeologists, and paleontologists as well as physicians, medical examiners, anatomists, and students of these disciplines will find this an invaluable reference and textbook. As medical schools struggle to fit ever more material into a fixed amount of time, students need to approach the study of anatomy through a succinct, integrative overview. Rather than setting forth an overwhelming list of facts to be memorized, this book engages readers with a fascinating account of the connections between human anatomy and a wide array of scientific disciplines, weaving in the latest advances in developmental and evolutionary biology, comparative morphology, and biological engineering. Logically organized around a few key concepts, The Scientific Bases of Human Anatomy presents them in clear, memorable prose, concise tabular material, and a host of striking photographs and original diagrams. . Senses. Welcome to the Human Body Theater, where your master of ceremonies is going to lead you through a theatrical revue of each and every biological system of the human body! Starting out as a skeleton, the MC puts on a new layer of her costume (her body) with each "act." By turns goofy and intensely informative, the Human Body Theater is always accessible and always entertaining. Maris Wicks is a biology nerd, and by the time you've read this book, you will be too! Harnessing her passion for science (and her background as a science educator for elementary and middle-school students), she has created a comics-format introduction to the human body that will make an expert of any reader -- young or old! Several books have been published on scaling in biology and its ramifications in the animal kingdom. However, none has specifically examined the multifaceted effects of how changes in human height create disproportionately larger changes in weight, surface area, strength and other physiological parameters. Yet, the impact of these non-linear effects on individual humans as well as our world's environment is enormous. Since increasing human body size has widespread ramifications, this book presents findings on the human species and its ecological niche. its community and how the species interacts with its environment. Thus, a few chapters provide an ecological overview of how increasing human body size relates to human evolution, fitness, health, survival and the environment. This book provides a unique purview of the laws of scaling on human performance, health, longevity and the environment. Numerous examples from various research disciplines are used to illustrate the impact of increasing body size on many aspects of human enterprises, including work output, athletics and intellectual performance. An Introduction to the Human Body Biology Though you may approach a course in anatomy and physiology strictly as a requirement for your field of study, the knowledge you gain in this course will serve you well in many aspects of your life. An understanding of anatomy and physiology is not only fundamental to any career in the health professions, but it can also benefit your own health. Familiarity with the human body can help you make healthful choices and prompt you to take appropriate action when signs of illness arise. Your knowledge in this field will help you understand news about nutrition, medications, medical devices, and procedures and help you understand genetic or infectious diseases. At some point, everyone will have a problem with some aspect of his or her body and your knowledge can help you to be a better parent, spouse, partner, friend, colleague, or caregiver. This book begins with an overview of anatomy and physiology and a preview of the body regions and functions. It then covers the characteristics of life and how the body works to maintain stable conditions. Chapter Outline: Introduction Overview of Anatomy and Physiology Structural Organization of the Human Body Functions of Human Life Requirements for Human Life Homeostasis Anatomical Terminology Medical Imaging The Open Courses Library introduces you to the best Open Source Courses. In Body Parts, E. Richard Gold examines whether the body and materials derived from it--such as human organs and DNA--should be thought of as market commodities and subject to property law. Analyzing a series of court decisions concerning property rights, Gold explores whether the language and assumptions of property law can help society determine who has rights to human biological materials. Gold observes that the commercial opportunities unleashed by advances in biotechnology present a challenge to the ways that society has traditionally valued the human body and human health. In a balanced discussion of both commercial and individual perspectives, Gold asserts the need to understand human biological materials within the context of human values, rather than economic interests. This perceptive book will be welcomed by scholars and other professionals engaged in questions regarding bioethics, applied ethics, the philosophy of value, and property and intellectual property rights. Given the international aspects of both intellectual property law and biotechnology, this book will be of interest throughout the world and especially valuable in common-law (most English-speaking) countries. Learn more information about Earth's most sophisticated machines - the human body. Encourage your child to seek further knowledge beyond the classroom. This science book can be used to review the organs and organ systems. But if you buy a copy ahead, your child can use it as advance reading material to improve grades in school. Grab a copy today. "A perfect blend of cutting-edge science and compelling storytelling."—Bill Bryson A revolutionary new vision of human biology and the scientific breakthroughs that will transform our lives Imagine knowing years in advance whether you are likely to get cancer or having a personalized understanding of your individual genes, organs, and cells. Imagine being able to monitor your body's well-being, or have a diet tailored to your microbiome. The Secret Body reveals how these and other stunning breakthroughs and technologies are transforming our understanding of how the human body works, what it is capable of, how to protect it from disease, and how we might manipulate it in the future. Taking readers to the cutting edge of research, Daniel Davis shows how radical new possibilities are becoming realities thanks to the visionary efforts of scientists who are revealing the invisible and secret universe within each of us. Focusing on six important frontiers, Davis describes what we are learning about cells, the development of the fetus, the body's immune system, the brain, the microbiome, and the genome—areas of human biology that are usually understood in isolation. Bringing them together here for the first time, Davis offers a new vision of the human body as a biological wonder of dizzying complexity and possibility. Written by an award-winning scientist at the forefront of this adventure, The Secret Body is a gripping drama of discovery and a landmark account of the dawning revolution in human health. It's obvious why only men develop prostate cancer and why only women get ovarian cancer. But it is not obvious why women are more likely to recover language ability after a stroke than men or why women are more apt to develop autoimmune diseases such as lupus. Sex differences in health throughout the lifespan have been documented. Exploring the Biological Contributions to Human Health begins to snap the pieces of the puzzle into place so that this knowledge can be used to improve health for both sexes. From behavior and cognition to metabolism and response to chemicals and infectious organisms, this book explores the health impact of sex (being male or female, according to reproductive organs and chromosomes) and gender (one's sense of self as male or female in society). Exploring the Biological Contributions to Human Health discusses basic biochemical differences in the cells of males and females and health variability between the sexes from conception throughout life. The book identifies key research needs and opportunities and addresses barriers to research. Exploring the Biological Contributions to Human Health will be important to health policy makers, basic, applied, and clinical researchers, educators, providers, and journalists-while being very accessible to interested lay readers. It's never too early to learn about the body! This biology book will educate your little learner on the human body - and not just the physical body parts at that! Don't stop at head, knees, arms and toes. Teach your children about the littlest parts of the body too. Go ahead and secure a copy of this biology book today! The human body is an incredible thing. This Human Anatomy Coloring Book for Kids is all about human body! It's easy to learn about your body! This cool coloring book includes 30+ drawings that explore brain, heart, lungs, kidney, eyes and more! This human anatomy coloring for kids will help them develop a lifelong love of science and get a head start on schooling. This coloring book is perfect for kids of all ages. Features: Over 30 wonderful illustrations (The Brain, Heart, Lungs, Eyes, and more) Illustrations printed on one side to prevent bleed-through Large images with a variation of thick and thin lines Large 8.5" x 11" size Human Anatomy Coloring Book for Kids will keep biology loving youngsters busy for hours. Get this fun and educational Coloring Book Today! It's never too early to learn about the body! This biology book will educate your little learner on the human body - and not just the physical body parts at that! Don't stop at head, knees, arms and toes. Teach your children about the littlest parts of the body too. Go ahead and secure a copy of this biology book today! The Biological Action of Physical Medicine: Controlling the Human Body's Information System challenges the contemporary way of thinking of diagnostics and therapy "from the outside." Drawing on 30 years of independent comprehensive research, this reference provides a universal and scientifically acceptable physiological theory, explaining the mode of action of methods of physical medicine as well as the underlying physiological mechanisms. Scientific research described in this book explains the universal neurophysiological foundation of all the respective methods, including organ electrodermal diagnostics (OED), thermotherapy (heat, cryostimulation), phototherapy (infrared, ultraviolet, laser), ultrasound therapy, electrotherapy (from transcutaneous electric nerve stimulation to electromagnetic field therapies), magnetotherapy, and mechanical nerve stimulation (acupuncture, reflexive massage, cupping, high-pressure hydrotherapy). A better understanding of physical medicine's modes of action not only insures better clinical results, but also illuminates pain mechanisms and our understanding of the functioning of the nervous system. Fully explains the important therapeutic modalities of genuine physical medicine as well as the underlying physiological mechanisms Shows how to access and control the diagnostic information circulating in the sensory nervous system In this landmark book of popular science, Daniel E. Lieberman—chair of the department of human evolutionary biology at Harvard University and a leader in the field—gives us a lucid and engaging account of how the human body evolved over millions of years, even as it shows how the increasing disparity between the jumble of adaptations in our Stone Age bodies and advancements in the modern world is occasioning this paradox: greater longevity but increased chronic disease. The Story of the Human Body brilliantly illuminates as never before the major transformations that contributed key adaptations to 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 incipience of cultural proficiencies. Lieberman also elucidates how cultural evolution differs from biological evolution, and how our bodies were further transformed during the 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, Lieberman argues, resulting in the growing incidence of obesity and new but avoidable diseases, such as type 2 diabetes. Lieberman proposes that many of these chronic illnesses persist and in some cases are intensifying because of “dysevolution,” a pernicious dynamic whereby only the symptoms rather than the causes of these maladies are treated. And finally—provocatively—he advocates the use of evolutionary information to help nudge, push, and sometimes even compel us to create a more salubrious environment. (With charts and line drawings throughout.) Whole Body Vibrations: Physical and Biological Effects on the Human Body allows an understanding about the qualities and disadvantages of vibration exposure on the human body with a biomechanical and medical perspective. It offers a comprehensive range of principles, methods, techniques and tools to provide the reader with a clear knowledge of the impact of vibration on human tissues and physiological processes. The text considers physical, mechanical and biomechanical aspects and it is illustrated by key application domains such as sports and medicine. Consisting of 11 chapters in total, the first three chapters provide useful tools for measuring, generating, simulating and processing vibration signals. The following seven chapters are applications in different fields of expertise, from performance to health, with localized or global effects. Since unfortunately there are undesirable effects from the exposure to mechanical vibrations, a final chapter is dedicated to this issue. Engineers, researchers and students from biomedical engineering and health sciences, as well as industrial professionals can profit from this compendium of knowledge about mechanical vibration applied to the human body. Provides biomechanical and medical perspectives to understanding the qualities and disadvantages of vibration exposure on the human body Offers a range of principles, methods, techniques, and tools to evaluate the impact of vibration on human tissues and physiological processes Explores mechanical vibration techniques used to improve human performance Discusses the strong association between health and human well-being Explores physical, mechanical, and biomechanical aspects of vibration exposure in domains such as sports and medicine “An unforgettable journey through this twisted miracle of evolution we call ‘our body.’” —Spike Carlsen, author of A Walk Around the Block From blurry vision to crooked teeth, ACLs that tear at alarming rates and spines that seem to spend a lifetime falling apart, it’s a curious thing that human beings have beaten the odds as a species. After all, we’re the only survivors on our branch of the tree of life. The flaws in our makeup raise more than a few

questions, and this detailed foray into the many twists and turns of our ancestral past includes no shortage of curiosity and humor to find the answers. Why is it that human mothers have such a life-endangering experience giving birth? Why are there entire medical specialties for teeth and feet? And why is it that human babies can't even hold their heads up, but horses are trotting around minutes after they're born? In this funny, wide-ranging and often surprising book, biologist Alex Bezerides tells us just where we inherited our adaptable, achy, brilliant bodies in the process of evolution. Integrates medical and evolutionary data on the role of body fat in human biology, including the current obesity epidemic. Say goodbye to dry presentations, grueling formulas, and abstract theories that would put Einstein to sleep -- now there's an easier way to master the disciplines you really need to know. McGraw-Hill's Demystified Series teaches complex subjects in a unique, easy-to-absorb manner, and is perfect for users without formal training or unlimited time. They're also the most time-efficient, interestingly written "brush-ups" you can find. Organized as self-teaching guides, they come complete with key points, background information, questions at the end of each chapter, and even final exams. You'll be able to learn more in less time, evaluate your areas of strength and weakness and reinforce your knowledge and confidence. This clear, heavily-illustrated guide to the human body covers anatomy of cells and tissues, muscle tissue, major muscles of the body, nervous tissue, membranes, organs, cancer, the skin, the human skeleton, the nervous system, glands, the senses, the cardiovascular system, the immune system, the respiratory system, digestion, genitourinary system, the embryo, and more. Learn more information about Earth's most sophisticated machines - the human body. Encourage your child to seek further knowledge beyond the classroom. This science book can be used to review the organs and organ systems. But if you buy a copy ahead, your child can use it as advance reading material to improve grades in school. Grab a copy today. The current volume focuses on several key aspects of mind/brain/body interactions in health and disease, including specific examples of interactions between body and brain, mechanisms underlying the response of the system to stressors, the role of early life events in permanently biasing the responsiveness of the system and practical implications of mind/body interactions in human disease. The volume on Biological Basis for Mind/Body Interactions is organized into 6 major sections, each dealing with a unique aspect of the general topic: After establishing the relationship between mind, brain and emotions, the first section deals with general neurobiological aspects mediating the effect of stress on various organ systems, including the immune and cardiovascular system. The second section covers the topic of how early life stressor can permanently alter responsiveness of the nervous system in animals and in man. The third section deals with influences of the internal environment, mediated by neuroendocrine and visceral afferent pathways on the CNS. The fourth section which deals with influences of body on the brain, focuses on mechanisms involved in perception and modulation of pain. The fifth section deals with influences of the mind/brain on the body, with an emphasis on central and peripheral mechanisms of autonomic control of body functions. The last section deals with a series of practical issues of mind/body treatments, including acupuncture, breathing, body work and meditation. In addition, issues such as cost effectiveness and research aspects are discussed. Authors in this last section frequently refer to topics and mechanisms addressed in the early sections, making it a truly integrated volume. The unique aspect of the volume is the integration of state-of-the-art research information on biological and practical aspects of mind/brain/body interactions. It is based on the beliefs of the editors and participants that the traditional separation of mind and body in research and in treatment of human disease is obsolete and needs to be replaced with a new unifying paradigm. Ironically, this evolving paradigm shares many similarities with ancient pre-Cartesian paradigms of health and disease. Over the last decades, our understanding of the relationship between thermoregulation, performance and fatigue has changed dramatically. New advances in technology and methodology permitted the study of rising and decreasing body temperature on metabolism and provided insights into the role the nervous system plays in determining human performance under thermally stressful situations. Further analysis of previous research has been necessary in addition to considering theories derived from complementary areas of research such as evolutionary biology, anthropology and cellular and molecular biology. This publication provides different interpretations of recent research for a better understanding of the limitations of thermoregulation. In particular, it presents evidence for the human's ability to anticipate thermal limits and adjust their performance accordingly so that cellular homeostasis is preserved. Further, the book is featuring the inclusion of the effect of reduced body temperature on muscular performance and endurance which today is a popular method for providing avenues of reduced thermal strain and recovery from exercise. This publication will be an essential read for those working in thermal medicine, exercise physiology and human performance. The development of technologies to modify natural human physical and cognitive performance is one of increasing interest and concern, especially among military services that may be called on to defeat foreign powers with enhanced warfighter capabilities. Human performance modification (HPM) is a general term that can encompass actions ranging from the use of "natural" materials, such as caffeine or khat as a stimulant, to the application of nanotechnology as a drug delivery mechanism or in an invasive brain implant. Although the literature on HPM typically addresses methods that enhance performance, another possible focus is methods that degrade performance or negatively affect a military force's ability to fight. Advances in medicine, biology, electronics, and computation have enabled an increasingly sophisticated ability to modify the human body, and such innovations will undoubtedly be adopted by military forces, with potential consequences for both sides of the battle lines. Although some innovations may be developed for purely military applications, they are increasingly unlikely to remain exclusively in that sphere because of the globalization and internationalization of the commercial research base. Based on its review of the literature, the presentations it received and on its own expertise, the Committee on Assessing Foreign Technology Development in Human Performance Modification chose to focus on three general areas of HPM: human cognitive modification as a computational problem, human performance modification as a biological problem, and human performance modification as a function of the brain-computer interface. Human Performance Modification: Review of Worldwide Research with a View to the Future summarizes these findings. The All-In-One Biology Book With Anatomy Explained for Children - Teach Your Children All the Visible and Invisible Parts of the Body and Have Them Love Biology! Biology can be confusing and difficult to navigate, but we can't deny that it is an extremely interesting subject. The same goes for children that are just brimming with curiosity. Don't deny their desire to learn more about themselves and the people around them. Overcome the typical mindset that Biology is too hard of a subject and have them discover their new favorite subject. Watch as their eyes go wide with fascination, and they'll proudly declare that they love Biology with this book that will teach them amazing Biology facts taught with fun illustrations! In this book, have your child discover: The amazing intricacies of the human body: Even though this book is explained in simple and child-friendly terms, there are no details spared! Have your child learn as much as they can while still having fun. All systems covered: There is a lesson for each system in the body, so your child will learn all about the body one by one! Long-term benefits: With tips and tricks to remember all the information, your child will take everything they learn with them even till their teenage and adult years. Beautiful illustrations: With illustrations that are accurate yet fun and interesting to look at, your child will be able to retain information better when they can visually see the information that they're learning! Exciting and educational: Make reading time fun and informational with this Biology book that knows how to keep children entertained. Your child will be asking to read for longer! Satisfy your children's curiosity while they're having fun with lessons that are specially tailored for children. Scroll up, Click on "Buy Now", and Get Your Copy Now! What are muscles and how do they work? Learn about the role of muscles in your body. This interesting book is filled with information that can be processed and absorbed in the quickest way possible. The secret for this success lies in the easy texts and complementing pictures included in each page of the book. So what are you waiting for? Grab a copy today! The Human Body: Linking 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 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 their likely anatomical origin Explains how developmental lineage influences the integration of organ systems INTRODUCTION TO ANATOMY AND PHYSIOLOGY is for the fundamentals A&P science course. It requires no prior biology or chemistry knowledge. In addition this book exposes learners to the fundamentals of the human body and how it functions, specifically focusing on how body systems work together to promote homeostasis. Each body system chapter is self-contained and can be studied in any order preferred. Extensive coverage of diseases highlights common disorders that affect the body throughout the life span. Case Studies and Career Focus features help learners apply knowledge and consider careers for which an understanding of Anatomy and Physiology is essential (crime scene investigators, toxicologists, estheticians, medical animation specialists, food safety specialists, health care, etc.). Concept Maps illustrate how structure relates to function and Body Systems Working Together to Maintain Homeostasis show learners how the entire body works as a whole. Essential laboratory exercises included at the end of each chapter provide hands-on lab experience, without the need for a separate lab manual. Key terms with phonetic pronunciations help build vocabulary. The CD-ROM that accompanies the book engages learners through interactive activities, quizzes and animations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. An eye-opening, spine-tingling, heartwarming tour through the extraordinary history and secrets of the human body. The human body is the most fraught and fascinating, talked-about and taboo, unique yet universal fact of our lives. It is the inspiration for art, the subject of science, and the source of some of the greatest stories ever told. In Anatomies, acclaimed author of Periodic Tales Hugh Aldersey-Williams brings his entertaining blend of science, history, and culture to bear on this richest of subjects. In an engaging narrative that ranges from ancient body art to plastic surgery today and from head to toe, Aldersey-Williams explores the corporeal mysteries that make us human: Why are some people left-handed and some blue-eyed? What is the funny bone, anyway? Why do some cultures think of the heart as the seat of our souls and passions, while others place it in the liver? A journalist with a knack for telling a story, Aldersey-Williams takes part in a drawing class, attends the dissection of a human body, and visits the doctor's office and the morgue. But Anatomies draws not just on medical science and Aldersey-Williams's reporting. It draws also on the works of philosophers, writers, and artists from throughout history. Aldersey-Williams delves into our shared cultural heritage—Shakespeare to Frankenstein, Rembrandt to 2001: A Space Odyssey—to reveal how attitudes toward the human body are as varied as human history, as he explains the origins and legacy of tattooing, shrunken heads, bloodletting, fingerprinting, X-rays, and more. From Adam's rib to van Gogh's ear to Einstein's brain, Anatomies is a treasure trove of surprising facts and stories and a wonderful embodiment of what Aristotle wrote more than two millennia ago: "The human body is more than the sum of its parts." This book comprehensively addresses the physics and engineering aspects of human physiology by using and building on first-year college physics and mathematics. Topics include the mechanics of the static body and the body in motion, the mechanical properties of the body, muscles in the body, the energetics of body metabolism, fluid flow in the cardiovascular and respiratory systems, the acoustics of sound waves in speaking and hearing, vision and the optics of the eye, the electrical properties of the body, and the basic engineering principles of feedback and control in regulating all aspects of function. The goal of this text is to clearly explain the physics issues concerning the human body, in part by developing and then using simple and subsequently more refined models of the macrophysics of the human body. Many chapters include a brief review of the underlying physics. There are problems at the end of each chapter; solutions to selected problems are also provided. This second edition enhances the treatments of the physics of motion, sports, and diseases and disorders, and integrates discussions of these topics as they appear throughout the book. Also, it briefly addresses physical measurements of and in the body, and offers a broader selection of problems, which, as in the first edition, are geared to a range of student levels. This text is geared to undergraduates interested in physics, medical applications of physics, quantitative physiology, medicine, and biomedical engineering. Clear, engaging, and visual, Starr and McMillan's HUMAN BIOLOGY teaches you the core concepts of human biology and prepares you to make well-informed decisions in your life. Each chapter opens with an application that highlights the relevance of biology and motivates the study of the topic. You then learn the basic concepts which help you think critically about these issues. Useful pedagogy such as section ending Take-Home Messages and a running glossary help you understand key concepts. At the end of the chapter, Your Future and Explore on Your Own sections demonstrate the impact and personal relevance of the content. Available with InfoTrac Student Collections <http://goengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Few things are as interesting to us as our own bodies and, by extension, our own identities. In recent years, there has been a growing interest in the relationship between the body, environment and society. Reflecting upon these developments, this book examines the role of the body in human identification, in the forging of identities, and the ways in which it embodies our social worlds. The approach is integrative, taking a uniquely biological perspective and reflecting on current discourse in the social sciences. With particular reference to bioarchaeology and forensic science, the authors focus on the construction and categorisation of the body within scientific and popular discourse, examining its many tissues, from the outermost to the innermost, from the skin to DNA. Synthesising two, traditionally disparate, strands of research, this is a valuable contribution to research on human identification and the embodiment of identity. Where did I come from? Why do I have two arms but just one head? How is my left leg the same size as my right one? Why are the fingerprints of identical twins not identical? How did my brain learn to learn? Why must I die? Questions like these remain biology's deepest and most ancient challenges. They force us to confront a fundamental biological problem: how can something as large and complex as a human body organize itself from the simplicity of a fertilized egg? A convergence of ideas from embryology, genetics, physics, networks, and control theory has begun to provide real answers. Based on the central principle of 'adaptive self-organization', it explains how the interactions of many cells, and of the tiny molecular machines that run them, can organize tissue structures vastly larger than themselves, correcting errors as they go along and creating new layers of complexity where there were none before. Life Unfolding tells the story of human development from egg to adult, from this perspective, showing how our whole understanding of how we come to be has been transformed in recent years. Highlighting how embryological knowledge is being used to understand why bodies age and fail, Jamie A. Davies explores the profound and fascinating impacts of our newfound knowledge. This Gift is a Perfect Way to Teach Your Child about Human Body and Organs. This Activity Book will help Your child to Have Fun doing some Awesome Activities and to Learn about the Human Body with Amazing Fun Facts! This awesome guide to the human body for kids includes: A full body breakdown?Simplify human anatomy for kids with informative, illustrated chapters broken down by system. Lots of ways to play?Keep lessons engaging with everything from connect-the-dots and crosswords to hands-on experiments. Science for kids?Did you know hair grows slower at night and that you're taller in the morning than the evening? Make kids want to learn more with the neat trivia in this human body book. Tons of fun facts and trivia?Did you know people shed 40,000 skin cells every hour, and your eye actually sees things upside-down? Find out more inside.

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