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Discusses the part glands and the urinary system play in keeping the body operating properly. Devised in the 1940s by the biologist C. H. Waddington, the epigenetic landscape is a metaphor for how gene regulation modulates cellular development. As a scientific model, it fell out of use in the late 1960s but returned at the beginning of the twenty-first century with the advent of big-data genomic research because of its utility among scientists across the life sciences to think more creatively about and to discuss genetics. In Epigenetic Landscapes Susan Merrill Squier follows the model's cultural trail, from its first visualization by the artist John Piper to its use beyond science. Squier examines

three cases in which the metaphor has been imaginatively deployed to illustrate complex systems that link scientific and cultural practices: graphic medicine, landscape architecture, and bioArt. Challenging reductive understandings of epigenetics, Squier boldly reclaims the broader significance of the epigenetic landscape as a figure at the nexus of art, design, and science. Medical Microbiology Illustrated presents a detailed description of epidemiology, and the biology of microorganisms. It discusses the pathogenicity and virulence of microbial agents. It addresses the intrinsic susceptibility or immunity to antimicrobial agents. Some of the topics covered in the book are the types of gram-positive cocci; diverse group of aerobic gram-positive bacilli; classification and clinical importance of erysipelothrix rhusiopathiae; pathogenesis of mycobacterial infection; classification of parasitic infections which manifest with fever; collection of blood for culture and control of

substances hazardous to health. The classification and clinical importance of neisseriaceae is fully covered. The definition and pathogenicity of haemophilus are discussed in detail. The text describes in depth the classification and clinical importance of spiral bacteria. The isolation and identification of fungi are completely presented. A chapter is devoted to the laboratory and serological diagnosis of systemic fungal infections. The book can provide useful information to microbiologists, physicians, laboratory scientists, students, and researchers. "Body Physics was designed to meet the objectives of a one-term high school or freshman level course in physical science, typically designed to provide non-science majors and undeclared students with exposure to the most basic principles in physics while fulfilling a science-with-lab core requirement. The content level is aimed at students taking their first college science course, whether or not they are planning to major in science. However, with

minor supplementation by other resources, such as OpenStax College Physics, this textbook could easily be used as the primary resource in 200-level introductory courses. Chapters that may be more appropriate for physics courses than for general science courses are noted with an asterisk (*). Of course this textbook could be used to supplement other primary resources in any physics course covering mechanics and thermodynamics"--Textbook Web page. "The bumper-sticker directive to 'follow the science' was actually an evasion of responsibility. It let people off the hook for their bad decisions in a crisis. Was New York Governor Cuomo's executive order sending COVID-hospitalized patients back to nursing homes to infect other vulnerable nursing home patients 'following the science'? Of course not. And sending post-hospitalization COVID-positive patients back to nursing homes was unnecessary. Relative to the total nursing home population, Governor Cuomo contributed to a larger percentage of nursing-

home deaths—especially when compared to the states without such a policy. New Jersey's over seven thousand nursing home deaths account for half of the state's fatalities since March. Pennsylvania did just as miserably. These governors made specific decisions that cost thousands of the most vulnerable, most expendable, their lives. But they didn't do it to their own relatives." —From I Do Not Consent Presents a plan for American cities that focuses on making downtowns walkable and less attractive to drivers through smart growth and sustainable design This textbook provides a strong foundation and a clear overview for students of membrane biology and an invaluable synthesis of cutting-edge research for working scientists. The text retains its clear and engaging style, providing a solid background in membrane biochemistry, while also incorporating the approaches of biophysics, genetics and cell biology to investigations of membrane structure, function and biogenesis to

provide a unique overview of this fast-moving field. A wealth of new high resolution structures of membrane proteins are presented, including the Na/K pump and a receptor-G protein complex, offering exciting insights into how they function. All key tools of current membrane research are described, including detergents and model systems, bioinformatics, protein-folding methodology, crystallography and diffraction, and molecular modeling. This comprehensive and up-to-date text, emphasising the correlations between membrane research and human health, provides a solid foundation for all those working in this field. Ecology has become one of the most urgent and lively fields in both the humanities and sciences. In a dramatic widening of scope beyond its original concern with the coexistence of living organisms within a natural environment, it is now recognized that there are ecologies of mind, information, sensation, perception, power, participation, media, behavior, belonging,

values, the social, the political... a thousand ecologies. This proliferation is not simply a metaphorical extension of the figurative potential of natural ecology: rather, it reflects the thoroughgoing imbrication of natural and technological elements in the constitution of the contemporary environments we inhabit, the rise of a cybernetic natural state, with its corresponding mode of power. Hence this ecology of ecologies initiates and demands that we go beyond the specificity of any particular ecology: a general thinking of ecology which may also constitute an ecological transformation of thought itself is required. In this ambitious and radical new volume of writings, some of the most exciting contemporary thinkers in the field take on the task of revealing and theorizing the extent of the ecologization of existence as the effect of our contemporary sociotechnological condition: together, they bring out the complexity and urgency of the challenge of ecological thought-one we cannot avoid if we

want to ask and indeed have a chance of affecting what forms of life, agency, modes of existence, human or otherwise, will participate and how in this planet's future. [CLICK HERE](#) to download the sample chapter "Weather" from *Staying Alive in Avalanche Terrain* * Provides easy-to-follow instructions on crucial avalanche safety skills * Completely revised with all of the most recent data and techniques * Ideal for snowmobilers, snowboarders, snowshoers, skiers, climbers, hunters, hikers "No one who plays in mountain snow should leave home without having studied this book." -Rocky Mountain News Winter recreation in the backcountry has increased steadily over the years and so has the number of deaths and injuries caused by avalanches. As search and rescue teams are increasingly strapped for funding, self-education has become a larger necessity for snow-sport enthusiasts. The new edition of Bruce Tremper's seminal book is organized according to the structure of

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American Avalanche Association classes and all chapters have been updated and reviewed by peer experts. This book examines the crucial role of psychoanalysis in understanding what AI means for us as speaking, sexed subjects. Drawing on Lacanian theory and recent clinical developments it explores what philosophy and critical theory of AI has hitherto neglected: enjoyment. Through the reconceptualization of Intelligence, the Artificial Object and the Sexual Abyss the book outlines the Sexbot as a figure who exists on the boundary of psychoanalysis and AI. Through this figure and the medium of film, the author subverts Kant's three Enlightenment questions and guides readers to transition from asking 'Does it think?' to 'Can it enjoy?' The book will appeal in particular to students and scholars of psychoanalysis, philosophy, film and media studies, critical theory, feminist theory and AI research. An introduction to the work and ideas of artists who use—and even influence—science and

technology. A new breed of contemporary artist engages science and technology—not just to adopt the vocabulary and gizmos, but to explore and comment on the content, agendas, and possibilities. Indeed, proposes Stephen Wilson, the role of the artist is not only to interpret and to spread scientific knowledge, but to be an active partner in determining the direction of research. Years ago, C. P. Snow wrote about the "two cultures" of science and the humanities; these developments may finally help to change the outlook of those who view science and technology as separate from the general culture. In this rich compendium, Wilson offers the first comprehensive survey of international artists who incorporate concepts and research from mathematics, the physical sciences, biology, kinetics, telecommunications, and experimental digital systems such as artificial intelligence and ubiquitous computing. In addition to visual documentation and statements by the artists, Wilson examines relevant art-theoretical

writings and explores emerging scientific and technological research likely to be culturally significant in the future. He also provides lists of resources including organizations, publications, conferences, museums, research centers, and Web sites. This second edition of *Medical Biochemistry* is supported by more than 45 years of teaching experience, providing coverage of basic biochemical topics, including the structural, physical, and chemical properties of water, carbohydrates, lipids, proteins, and nucleic acids. In addition, the general aspects of thermodynamics, enzymes, bioenergetics, and metabolism are presented in straightforward and easy-to-comprehend language. This book ties these concepts into more complex aspects of biochemistry using a systems approach, dedicating chapters to the integral study of biological phenomena, including cell membrane structure and function, gene expression and regulation, protein synthesis and post-translational modifications, metabolism in

specific organs and tissues, autophagy, cell receptors, signal transduction pathways, biochemical bases of endocrinology, immunity, vitamins and minerals, and hemostasis. The field of biochemistry is continuing to grow at a fast pace. This edition has been revised and expanded with all-new sections on the cell plasma membrane, the human microbiome, autophagy, noncoding, small and long RNAs, epigenetics, genetic diseases, virology and vaccines, cell signaling, and different modes of programmed cell death. The book has also been updated with full-color figures, new tables, chapter summaries, and further medical examples to improve learning and better illustrate the concepts described and their clinical significance. Integrates basic biochemistry principles with molecular biology and molecular physiology Illustrates basic biochemical concepts through medical and physiological examples Utilizes a systems approach to understanding biological

phenomena Fully updated for recent studies and expanded to include clinically relevant examples and succinct chapter summaries Americans are, he argues, in danger of becoming a nation of wilders - one in which their often ruthless exercise of individual freedom threatens to unravel society itself. But there may be solutions. In a passionate final chapter, Derber shows how Americans can rethink individualism, and how they can construct a compassionate society and a more responsible vision of the American Dream. A playful and profound survey of the concept of computation across the entire spectrum of human thought-written by a mathematician novelist who spent twenty years as a Silicon Valley computer scientist. The logic is correct, and the conclusions are startling. Simple rules can generate gnarly patterns. Physics obeys laws, but the outcomes aren't predictable. Free will is real. The mind is like a quantum computer. Social strata are skewed by universal scaling laws. And there can never be a

simple trick for answering all possible questions about our world's natural processes. We live amid splendor beyond our control. A century after the Martian war of independence, a group of kids are sent to Earth as delegates from Mars, but when they return home, they are caught between the two worlds, unable to reconcile the beauty and culture of Mars with their experiences on Earth in this "thoughtful debut" (Kirkus Reviews) from Hugo Award-winning author Hao Jingfang. This "masterful narrative" (Booklist, starred review) is set on Earth in the wake of a second civil war...not between two factions in one nation, but two factions in one solar system: Mars and Earth. In an attempt to repair increasing tensions, the colonies of Mars send a group of young people to live on Earth to help reconcile humanity. But the group finds itself with no real home, no friends, and fractured allegiances as they struggle to find a sense of community and identity trapped between two worlds. "The African Bio Mineral

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Balance supports the healthy expression of the African genome in all people." Biology: The Dynamic Science is the first general biology text with an experimental approach that connects historical research, recent advances achieved with molecular tools, and a glimpse of the future through the eyes of prominent researchers working on key unanswered questions of the day. This comprehensive framework doesn't come at the expense of essential concepts. Rather, it provides a meaningful, realistic context for learning all of the core material that students must master in their first course. Written "from the ground up" with minimal jargon and crisp, straight forward explanations of the current state of biological knowledge, the text supports students as they learn the scientific process-and how to think as scientists do. This book covers the basics of human biology from three integrated perspectives: health, homeostasis, and the environment. Mast Cells and Basophils will be essential reading for

immunologists, biochemists and medical researchers. Detailed chapters cover all aspects of mast cell and basophil research, from cell development, proteases, histamine, cysteinyl leukotrienes, physiology and pathology to the role of these cells in health and disease. Chapters also discuss the clinical implications of histamine receptor antagonists. Learn how you can boost your immune system and help prevent virtually every major medical condition--including cancer, heart disease, neurological disorders, GI issues, and obesity--by keeping your lymph system healthy. The lymphatic system serves as our body's maintenance department and has a direct effect on our cardiovascular, neurological, and immune systems. It has also been one of the most misunderstood systems--until now. At last, renowned cardiothoracic surgeon and pioneer in the study of lymph Gerald Lemole explains in straightforward language why the lymphatic system is the key factor in longevity and disease

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prevention, and how improving lymphatic flow can help our bodies eliminate the toxins and waste products that contribute to injury, inflammation, and disease. In ten short chapters featuring sidebars with charts and graphs that illustrate basic principles, *Lymph & Longevity* also includes flow-friendly menus, recipes, and information on supplements, as well as basic yoga and meditation guides. Illuminating, informative, and practical, this essential guide is more timely now than ever as we continue to work to protect ourselves and our communities against Covid-19 and other viruses.--adapted from Amazon. "Written by two of the best-known scientists in the field, Paul C. Painter and Michael M. Coleman, this unique text helps students, as well as professionals in industry, understand the science, and appreciate the history, of polymers. Composed in a witty and accessible style, the book presents a comprehensive account of polymer chemistry and related engineering concepts, highly

illustrated with worked problems and hundreds of clearly explained formulas. In contrast to other books, 'Essentials' adds historical information about polymer science and scientists and shows how laboratory discoveries led to the development of modern plastics."--DEStech Publications web-site. Kirkus' Best Fiction of 2017 From New York Times bestselling author Cory Doctorow, an epic tale of revolution, love, post-scarcity, and the end of death. "Walkaway is now the best contemporary example I know of, its utopia glimpsed after fascinatingly-extrapolated revolutionary struggle." —William Gibson Hubert Vernon Rudolph Clayton Irving Wilson Alva Anton Jeff Harley Timothy Curtis Cleveland Cecil Ollie Edmund Eli Wiley Marvin Ellis Espinoza—known to his friends as Hubert, Etc—was too old to be at that Communist party. But after watching the breakdown of modern society, he really has no where left to be—except amongst the dregs of disaffected youth who party all night and heap scorn on the sheep they

see on the morning commute. After falling in with Natalie, an ultra-rich heiress trying to escape the clutches of her repressive father, the two decide to give up fully on formal society—and walk away. After all, now that anyone can design and print the basic necessities of life—food, clothing, shelter—from a computer, there seems to be little reason to toil within the system. It's still a dangerous world out there, the empty lands wrecked by climate change, dead cities hollowed out by industrial flight, shadows hiding predators animal and human alike. Still, when the initial pioneer walkaways flourish, more people join them. Then the walkaways discover the one thing the ultra-rich have never been able to buy: how to beat death. Now it's war - a war that will turn the world upside down. Fascinating, moving, and darkly humorous, Walkaway is a multi-generation SF thriller about the wrenching changes of the next hundred years...and the very human people who will live their consequences.

At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied. Author Page Keeley continues to provide KOC12 teachers with her highly usable and popular formula for uncovering and addressing the preconceptions that students bring to the classroom. The formative assessment probe in this first book devoted exclusively to life science in her Uncovering Student Ideas in Science series. Keeley addresses the topics of life and its diversity; structure and function; life processes and needs of living things; ecosystems and change; reproduction, life cycles, and heredity; and human biology." Second in the Rifters Trilogy, Hugo Award-winning author Peter Watts' Maelstrom is a terrifying explosion of cyberpunk noir. This is the way the world ends: A nuclear strike on a deep sea vent. The target was an ancient microbe—voracious enough to drive the whole biosphere to extinction—and a handful of amphibious humans called rifters who'd

inadvertently released it from three billion years of solitary confinement. The resulting tsunami killed millions. It's not as though there was a choice: saving the world excuses almost any degree of collateral damage. Unless, of course, you miss the target. Now North America's west coast lies in ruins. Millions of refugees rally around a mythical figure mysteriously risen from the deep sea. A world already wobbling towards collapse barely notices the spread of one more blight along its shores. And buried in the seething fast-forward jungle that use to be called Internet, something vast and inhuman reaches out to a woman with empty white eyes and machinery in her chest. A woman driven by rage, and incubating Armageddon. Her name is Lenie Clarke. She's a rifter. She's not nearly as dead as everyone thinks. And the whole damn world is collateral damage as far as she's concerned. . . . At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied. The New York Times and Wall

Street Journal bestseller, based on the principle that little, everyday decisions will either take you to the life you desire or to disaster by default. No gimmicks. No Hyperbole. No Magic Bullet. The Compound Effect is a distillation of the fundamental principles that have guided the most phenomenal achievements in business, relationships, and beyond. This easy-to-use, step-by-step operating system allows you to multiply your success, chart your progress, and achieve any desire. If you're serious about living an extraordinary life, use the power of The Compound Effect to create the success you want. You will find strategies including: How to win--every time! The No. 1 strategy to achieve any goal and triumph over any competitor, even if they're smarter, more talented or more experienced. Eradicating your bad habits (some you might be unaware of!) that are derailing your progress. The real, lasting keys to motivation--how to get yourself to do things you don't feel like doing. Capturing the elusive,

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awesome force of momentum. Catch this, and you'll be unstoppable. The acceleration secrets of superachievers. Do they have an unfair advantage? Yes they do, and now you can too! Atlas of Human Body: Central Nervous System and Vascularization is a multidisciplinary approach to the technical coverage of anatomical structures and relationships. It contains surface and 3D dissection images, native and colored cross sectional views made in different planes, MRI comparisons, demonstrations of cranial nerve origins, distribution of blood vessels by dissection, and systematic presentation of arterial distribution from the precapillary level, using the methyl metacrylate injection and subsequent tissue digestion method. Included throughout are late prenatal (fetal) and early postnatal images to contribute to a better understanding of structure/relationship specificity of differentiation at various developmental intervals (conduits, organs, somatic, or branchial

derivatives). Each chapter features clinical correlations providing a unique perspective of side-by-side comparisons of dissection images, magnetic resonance imaging and computed tomography. Created after many years of professional and scientific cooperation between the authors and their parent institutions, this important resource will serve researchers, students, and doctors in their professional work. Contains over 700 color photos of ideal anatomical preparations and sections of each part of the body that have been prepared, recorded, and processed by the authors. Covers existing gaps including developmental and prenatal periods, detailed vascular anatomy, and neuro anatomy. Features a comprehensive alphabetical index of structures for ease of use. Features a companion website which contains access to all images within the book. Timothy Morton argues that ecological awareness in the present Anthropocene era takes the form of a strange loop or Möbius strip, twisted to have

only one side. Deckard travels this oedipal path in *Blade Runner* (1982) when he learns that he might be the enemy he has been ordered to pursue. Ecological awareness takes this shape because ecological phenomena have a loop form that is also fundamental to the structure of how things are. The logistics of agricultural society resulted in global warming and hardwired dangerous ideas about life-forms into the human mind. Dark ecology puts us in an uncanny position of radical self-knowledge, illuminating our place in the biosphere and our belonging to a species in a sense that is far less obvious than we like to think. Morton explores the logical foundations of the ecological crisis, which is suffused with the melancholy and negativity of coexistence yet evolving, as we explore its loop form, into something playful, anarchic, and comedic. His work is a skilled fusion of humanities and scientific scholarship, incorporating the theories and findings of philosophy, anthropology, literature, ecology,

biology, and physics. Morton hopes to reestablish our ties to nonhuman beings and to help us rediscover the playfulness and joy that can brighten the dark, strange loop we traverse. *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 One of the best-selling young adult books of all time, written by Pulitzer Prize-winning author Paul Zindel. John Conlan is nicknamed "The Bathroom Bomber" after setting off firecrackers

in the boys' bathroom 23 times without ever getting caught. John and his best friend, Lorraine, can never please their parents, and school is a chore. To pass the time, they play pranks on unsuspecting people and it's during one of these pranks that they meet the "Pigman." In spite of themselves, John and Lorraine soon get caught up in Mr. Pignati's zest for life. In fact, they become so involved that they begin to destroy the only corner of the world that has ever mattered to them. Can they stop before it's too late?' Diagnosed with her own genetic blood disorder, Mabelle had no other alternative but to research and learn how to maintain optimum health. Mabelle applies all she learns to the health and welfare of exotic birds. Feather destroyers exhibit much of the same symptoms Mabelle experiences. All of the nutritional research Mabelle performs for the exotic birds she loves has supplied her with information for her own well-being, and vice versa. Come with Mabelle as we all explore new

information on the parrot digestive tract and begin to apply what we have learned to "feed your flock really, really well!" For courses in Science, Technology, and Society; Culture and Society; Sociology; Ecology; Technology and Ethics; Technology for the Future; Local/Global Student Responsibility for the Future; Technology and Education; New and Emerging Technologies; and Implications of Engineering for the Future. Unique in its depth, breadth, and variety of opinions and writings, Technology and Society, Third Edition is designed to stimulate, inspire, and provoke awareness of technology's impact on society. Spanning eight topical areas, its articles are united by a single idea: technological change has been a constant companion to changes in society, ethics, energy, the environment, population, conflict, the third world, health, and even the future. Drawing on the contributors' diverse backgrounds, this anthology explores the complexities of today's toughest technology and society issues and

features case studies and exercises that promote critical thinking, problem solving and social awareness. This unique treatise expands on the philosophy of technology to argue for a psychology of technology based on the complex relationships between psychology, biology and technology, especially in the light of our relationships with our digital devices, our online lives, and our human experience. Drawing from disciplines ranging from philosophy and evolution to cognition and neuroscience, it examines myriad aspects of the brain's creative development: the cognitive, sensory, and motor processes that enable technological progress and its resulting efficiencies and deficiencies along with our discomforts and pleasures. These experiences are key to behavioral and affective processes in technology, manifest in such diverse phenomena as multitasking, the shift in tech design from ergonomics to hedonomics, and the many types of online problem behaviors. Through these rich pages, readers can

understand more deeply the history and future of human adjustment and adaptation in an environment intertwined with technology—and, with the ascendance of video games and virtual reality, new conceptions of the human self. Among the topics covered: Could we have remained a tech-devoid society? Technology, ergonomics and the non-executive functions of our body. New directions in brain-computer interface. From avatars and agents to virtual reality technology. On measuring affective responses to objects. Psychology, technology, ethics, and culture. A timely lens on a field that will grow in importance as it shapes our existence, *Psychology of Technology* will be read and discussed by not only psychologists, social scientists, and behavioral scientists, but also by technology designers and developers and those in biotechnology. Renowned primatologist Robert Sapolsky offers a completely revised and updated edition of his most popular work, with over 225,000 copies in print. Now in a third

edition, Robert M. Sapolsky's acclaimed and successful *Why Zebras Don't Get Ulcers* features new chapters on how stress affects sleep and addiction, as well as new insights into anxiety and personality disorder and the impact of spirituality on managing stress. As Sapolsky explains, most of us do not lie awake at night worrying about whether we have leprosy or malaria. Instead, the diseases we fear—and the ones that plague us now—are illnesses brought on by the slow accumulation of damage, such as heart disease and cancer. When we worry or experience stress, our body turns on the same physiological responses that an animal's does, but we do not resolve conflict in the same way—through fighting or fleeing. Over time, this activation of a stress response makes us literally sick. Combining cutting-edge research with a healthy dose of good humor and practical advice, *Why Zebras Don't Get Ulcers* explains how prolonged stress causes or intensifies a range of physical and mental afflictions, including

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depression, ulcers, colitis, heart disease, and more. It also provides essential guidance to controlling our stress responses. This new edition promises to be the most comprehensive and engaging one yet. By providing an overview of key yoga postures and basic breathing techniques, this book demonstrates how people with Multiple Sclerosis can manage symptoms, and create a regular yoga practice in order to enhance physical and mental wellbeing. The book includes photos to demonstrate the yoga

poses, as well as case studies and testimonials that depict the benefits and impact of a regular practice that can be carried out at home with minimal equipment or household objects. There is also advice on safety, diet and nutrition, and meditation practices. Suitable for beginner and continuing level yoga students, *Yoga for Multiple Sclerosis* is the perfect guide for those wishing to harness the therapeutic power of yoga, as well as for yoga teachers looking for ways to support their students.