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HOLT ENVIRONMENTAL SCIENCE

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ENVIRONMENTAL SCIENCE

SUSTAINING YOUR WORLD

South Western Educational Publishing Environmental Science: Sustaining Your World was created specifically for your high school environmental science course. With a central theme of sustainability included throughout, authors G. Tyler Miller and Scott Spoolman have focused content and included student activities on the core environmental issues of today while incorporating current research on solutions-based outcomes. National Geographic images and graphics support the text, while National Geographic Explorers and scientists who are working in the field to solve environmental issues of all kinds tell their stories of how real science and engineering practices are used to solve real-world environmental problems. Ensure that your students learn critical thinking skills to evaluate all sides of environmental issues while gaining knowledge of the Core Ideas from the NGSS and applying that knowledge to real science and engineering practices and activities.

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES

A PATH FORWARD

National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

BOOKS IN PRINT SUPPLEMENT

HOW PEOPLE LEARN

BRAIN, MIND, EXPERIENCE, AND SCHOOL: EXPANDED EDITION

National Academies Press First released in the Spring of 1999, How People Learn has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do-with curricula, classroom settings, and teaching methods--to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. How People Learn examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education.

CHILDREN'S BOOKS IN PRINT, 2007

AN AUTHOR, TITLE, AND ILLUSTRATOR INDEX TO BOOKS FOR CHILDREN AND YOUNG ADULTS

ENVIRONMENTAL SCIENCE

SCIENCE AND THE ENVIRONMENT

MODERN BIOLOGY

CHILDREN'S BOOKS IN PRINT

R. R. Bowker

EBOOK: PSYCHOLOGY: THE SCIENCE OF MIND AND BEHAVIOUR, 4E

McGraw Hill EBOOK: Psychology: The Science of Mind and Behaviour, 4e

UNDERSTANDING BY DESIGN

ASCD Presents a multifaceted model of understanding, which is based on the premise that people can demonstrate understanding in a variety of ways.

ELLESTAD'S STRESS TESTING

PRINCIPLES AND PRACTICE

Oxford University Press, USA The sixth edition of Ellestad's classic text on cardiac stress testing has been extensively updated and re-written to communicate contemporary understanding of the classical principles of stress testing to clinicians and researchers, students and seasoned practitioners alike. The current techniques for performing stress tests presented herein reflect major technologic advances in imaging, physiologic monitoring and the assessment of cardiovascular risk, addressing fundamental paradigm shifts in interventional, surgical and medical treatment of heart disease. Moreover, the text addresses the dramatic changes that are occurring in patient demographics and the environmental, socioeconomic, gender and genomic factors that crucially impact heart disease and warrant attention when performing cardiac stress testing. Chapters on the physiology of exercise testing including practical details regarding protocols for conducting the stress test, proper supervision, important parameters to be monitored, and the diagnostic and prognostic information to be gleaned from the electrocardiogram set the stage for expanded chapters on the use of cardiac imaging in conjunction with stress testing. Physiologic and metabolic considerations during stress testing are covered in detail. Application of stress testing to special populations, such as women, children, athletes, and individuals in both high and low risk groups are covered in new chapters. Finally, the authors address the use of stress testing in limited resource environments and discuss global changes in the incidence of atherosclerosis, and suggest how stress testing may evolve.

FORTHCOMING BOOKS

CHILDREN MOVING

A REFLECTIVE APPROACH TO TEACHING PHYSICAL EDUCATION

McGraw-Hill College "Soundly based in the research literature and theory, this comprehensive introductory text is a practical guide to teaching physical education to the elementary school child. Its skill theme approach guides teachers in the process of assisting children develop their motor skills and physical fitness through developmentally appropriate activities. This mandatory package includes the

"Movement Analysis Wheel" that can be used by students and teachers to more fully understand the skill theme approach and apply it with children."--Publisher's website.

HOW LEARNING WORKS

SEVEN RESEARCH-BASED PRINCIPLES FOR SMART TEACHING

John Wiley & Sons Praise for How Learning Works "How Learning Works is the perfect title for this excellent book. Drawing upon new research in psychology, education, and cognitive science, the authors have demystified a complex topic into clear explanations of seven powerful learning principles. Full of great ideas and practical suggestions, all based on solid research evidence, this book is essential reading for instructors at all levels who wish to improve their students' learning." —Barbara Gross Davis, assistant vice chancellor for educational development, University of California, Berkeley, and author, *Tools for Teaching* "This book is a must-read for every instructor, new or experienced. Although I have been teaching for almost thirty years, as I read this book I found myself resonating with many of its ideas, and I discovered new ways of thinking about teaching." —Eugenia T. Paulus, professor of chemistry, North Hennepin Community College, and 2008 U.S. Community Colleges Professor of the Year from The Carnegie Foundation for the Advancement of Teaching and the Council for Advancement and Support of Education "Thank you Carnegie Mellon for making accessible what has previously been inaccessible to those of us who are not learning scientists. Your focus on the essence of learning combined with concrete examples of the daily challenges of teaching and clear tactical strategies for faculty to consider is a welcome work. I will recommend this book to all my colleagues." —Catherine M. Casserly, senior partner, The Carnegie Foundation for the Advancement of Teaching "As you read about each of the seven basic learning principles in this book, you will find advice that is grounded in learning theory, based on research evidence, relevant to college teaching, and easy to understand. The authors have extensive knowledge and experience in applying the science of learning to college teaching, and they graciously share it with you in this organized and readable book." —From the Foreword by Richard E. Mayer, professor of psychology, University of California, Santa Barbara; coauthor, *e-Learning and the Science of Instruction*; and author, *Multimedia Learning*

EBOOK: PSYCHOLOGY: THE SCIENCE OF MIND AND BEHAVIOUR

McGraw Hill Psychology: The Science of Mind and Behaviour is here with a new, fully updated and revised third edition. Bringing new developments in the field and its renowned pedagogical design, the third edition offers an exciting and engaging introduction to the study of psychology. This book's scientific approach, which brings together international research, practical application and the levels of analysis framework, encourages critical thinking about psychology and its impact on our daily lives. Key features: Fully updated research and data throughout the book as well as increased cross cultural references Restructured Chapter 3 on Genes, Environment and Behaviour, which now starts with a discussion of Darwinian theory before moving on to Mendelian genetics Core subject updates such as DSM-5 for psychological disorders and imaging techniques on the brain are fully integrated Revised and updated Research Close Up boxes Current Issues and hot topics such as, the study of happiness and schizophrenia, intelligence testing, the influence of the media and conflict and terrorism are discussed to prompt debates and questions facing psychologists today New to this edition is Recommended Reading of both classic and contemporary studies at the end of chapters Connect™ Psychology: a digital teaching and learning environment that improves performance over a variety of critical outcomes; easy to use and proven effective. LearnSmart™: the most widely used and intelligent adaptive learning resource that is proven to strengthen memory recall, improve course retention and boost grades. SmartBook™: Fuelled by LearnSmart, SmartBook is the first and only adaptive reading experience available today.

ENVIRONMENTAL SCIENCE FOR AP®

Macmillan Higher Education Written specifically for the AP® Environmental Science course, Friedland and Relyea Environmental Science for AP® Second Edition, is designed to help you realize success on the AP® Environmental Science Exam and in your course by providing the built-in support you want and need. In the new edition, each chapter is broken into short, manageable modules to help students learn at an ideal pace. Do the Math boxes review quantitative skills and offer you a chance to practice the math you need to know to succeed. Module AP® Review questions, Unit AP® Practice Exams, and a full length cumulative AP® Practice test offer unparalleled, integrated support to prepare you for the real AP® Environmental Science exam in May. The new edition also features a breakthrough in digital-based learning--an edaptex, powered by Copia Class.

DISEASES AND PATHOLOGY OF REPTILES

COLOR ATLAS AND TEXT, TWO VOLUME SET

CRC Press This two-volume set represents a second edition of the original Infectious Diseases and Pathology of Reptiles alongside a new book that covers noninfectious diseases of reptiles. Together, these meet the need for an entirely comprehensive, authoritative single-source reference. The volumes feature color photos of normal anatomy and histology, as well as gross, light, and electron microscopic images of infectious and noninfectious diseases of reptiles. The most detailed and highly illustrated reference on the market, this two-volume set includes definitive information on every aspect of the anatomy, pathophysiology, and differential diagnosis of infectious and noninfectious diseases affecting reptiles.

WRITING LITERATURE REVIEWS

A GUIDE FOR STUDENTS OF THE SOCIAL AND BEHAVIORAL SCIENCES

Taylor & Francis This useful guide educates students in the preparation of literature reviews for term projects, theses, and dissertations. The authors provide numerous examples from published reviews that illustrate the guidelines discussed throughout the book. ? New to the seventh edition: ? Each chapter breaks down the larger holistic review of literature exercise into a series of smaller, manageable steps Practical instructions for navigating today's digital libraries Comprehensive discussions about digital tools, including bibliographic and plagiarism detection software Chapter activities that reflect the book's updated content New model literature reviews Online resources designed to help instructors plan and teach their courses (www.routledge.com/9780415315746).

HOLT ENVIRONMENTAL SCIENCE

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LANDSCAPE ECOLOGY IN THEORY AND PRACTICE

PATTERN AND PROCESS

Springer Science & Business Media An ideal text for students taking a course in landscape ecology. The book has been written by very well-known practitioners and pioneers in the new field of ecological analysis. Landscape ecology has emerged during the past two decades as a new and exciting level of ecological study. Environmental problems such as global climate change, land use change, habitat fragmentation and loss of biodiversity have required ecologists to expand their traditional spatial and temporal scales and the widespread availability of remote imagery, geographic information systems, and desk top computing has permitted the development of spatially explicit analyses. In this new text book this new field of landscape ecology is given the first fully integrated treatment suitable for the student. Throughout, the theoretical developments, modeling approaches and results, and empirical data are merged together, so as not to introduce barriers to the synthesis of the various approaches that constitute an effective ecological synthesis. The book also emphasizes selected topic areas in which landscape ecology has made the most contributions to our understanding of ecological processes, as well as identifying areas where its contributions have been limited. Each chapter features questions for discussion as well as recommended reading.

QUALITATIVE RESEARCH PRACTICE

A GUIDE FOR SOCIAL SCIENCE STUDENTS AND RESEARCHERS

SAGE Why use qualitative methods? What kinds of questions can qualitative methods help you answer? How do you actually do rigorous and reflective qualitative research in the real world? Written by a team of leading researchers associated with NatCen Social Research (the National Centre for Social Research) this textbook leads students and researchers through the entire process of qualitative research from beginning to end - moving through design, sampling, data collection, analysis and reporting. In this fully revised second edition you will find: A practical account of how to carry out qualitative research which recognises a range of current approaches and applications A brand new chapter on ethics A brand new chapter on observational research Updated advice on using software when analysing your qualitative data New case studies which illustrate issues you may encounter and how problems have been tackled by other researchers. This book is an ideal guide for students, practitioners and researchers faced with the challenges of doing qualitative research in both applied and academic settings in messy real-life contexts.

PRODUCED WATER

TECHNOLOGICAL/ENVIRONMENTAL ISSUES AND SOLUTIONS

Springer Science & Business Media This book represents the proceedings of the first major international meeting dedicated to discuss environmental aspects of produced water. The 1992 International Produced Water Symposium was held at the Catamaran Hotel, San Diego, California, USA, on February 4-7, 1992. The objectives of the conference were to provide a forum where scientists, regulators, industry, academia, and the environmental community could gather to hear and discuss the latest information related to the environmental considerations of produced water discharges. It was also an objective to provide a forum for the peer review and international publication of the symposium papers so that they would have wide availability to all parties interested in produced water environmental issues. Produced water is the largest volume waste stream from oil and gas production activities. Onshore, well over 90% is reinjected to subsurface formations. Offshore, and in the coastal zone, most produced water is discharged to the ocean. Over the past several years there has been increasing concern from regulators and the environmental community. There has been a quest for more information on the composition, treatment systems and chemicals, discharge characteristics, disposal options, and fate and effects of the produced water. As so often happens, much of this information exists in the forms of reports and internal research papers. This symposium and publication was intended to make this information available, both for open discussion at the conference, and for peer review before publication.

TRACE ENVIRONMENTAL QUANTITATIVE ANALYSIS

INCLUDING STUDENT-TESTED EXPERIMENTS

CRC Press A thorough and timely update, this new edition presents principles, techniques, and applications in this sub-discipline of analytical chemistry for quantifying traces of potentially toxic organic

and inorganic chemical substances found in air, soil, fish, and water, as well as serum, plasma, urine, and other body fluids. The author addresses regulatory aspects, calibration, verification, and the statistical treatment of analytical data including instrument detection limits; quality assurance/quality control; sampling and sample preparation; and techniques that are used to quantify trace concentrations of organic and inorganic chemical substances. Key Features: Fundamental principles are introduced for the more significant experimental approaches to sample preparation Principles of instrumental analysis (determinative techniques) for trace organics and trace inorganics analysis An introduction to the statistical treatment of trace analytical data How to calculate instrument detection limits based on weighted least squares confidence band calibration statistics Includes an updated series of student-tested experiments

McGraw-Hill's 10 ACT Practice Tests, Second Edition

McGraw Hill Professional We want to give you the practice you need on the ACT McGraw-Hill's 10 ACT Practice Tests helps you gauge what the test measures, how it's structured, and how to budget your time in each section. Written by the founder and faculty of Advantage Education, one of America's most respected providers of school-based test-prep classes, this book provides you with the intensive ACT practice that will help your scores improve from each test to the next. You'll be able to sharpen your skills, boost your confidence, reduce your stress-and to do your very best on test day. 10 complete sample ACT exams, with full explanations for every answer 10 sample writing prompts for the optional ACT essay portion Scoring Worksheets to help you calculate your total score for every test Expert guidance in prepping students for the ACT More practice and extra help online ACT is a registered trademark of ACT, Inc., which was not involved in the production of, and does not endorse, this product.

Impacts of Climate Change on Human Health in the United States

A Scientific Assessment

Simon and Schuster As global climate change proliferates, so too do the health risks associated with the changing world around us. Called for in the President's Climate Action Plan and put together by experts from eight different Federal agencies, *The Impacts of Climate Change on Human Health: A Scientific Assessment* is a comprehensive report on these evolving health risks, including: Temperature-related death and illness Air quality deterioration Impacts of extreme events on human health Vector-borne diseases Climate impacts on water-related illness Food safety, nutrition, and distribution Mental health and well-being This report summarizes scientific data in a concise and accessible fashion for the general public, providing executive summaries, key takeaways, and full-color diagrams and charts. Learn what health risks face you and your family as a result of global climate change and start preparing now with *The Impacts of Climate Change on Human Health*.

How Tobacco Smoke Causes Disease

The Biology and Behavioral Basis for Smoking-Attributable Disease : A Report of the Surgeon General

U.S. Government Printing Office This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

Concepts of Biology

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, *Concepts of Biology* is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of *Concepts of Biology* is that instructors can customize the book, adapting it to the approach that works best in their classroom. *Concepts of Biology* also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

The Routledge Handbook of Research Methods for Social-Ecological Systems

Routledge The *Routledge Handbook of Research Methods for Social-Ecological Systems* provides a synthetic guide to the range of methods that can be employed in social-ecological systems (SES) research. The book is primarily targeted at graduate students, lecturers and researchers working on SES, and has been written in a style that is accessible to readers entering the field from a variety of different disciplinary backgrounds. Each chapter discusses the types of SES questions to which the particular methods are suited and the potential resources and skills required for their implementation, and provides practical examples of the application of the methods. In addition, the book contains a conceptual and practical introduction to SES research, a discussion of key gaps and frontiers in SES research methods, and a glossary of key terms in SES research. Contributions from 97 different authors, situated at SES research hubs in 16 countries around the world, including South Africa, Sweden, Germany and Australia, bring a wealth of expertise and experience to this book. The first book to provide a guide and introduction specifically focused on methods for studying SES, this book will be of great interest to students and scholars of sustainability science, environmental management, global environmental change studies and environmental governance. The book will also be of interest to upper-level undergraduates and professionals working at the science-policy interface in the environmental arena.

The Sciences of the Artificial, Third Edition

MIT Press Continuing his exploration of the organization of complexity and the science of design, this new edition of Herbert Simon's classic work on artificial intelligence adds a chapter that sorts out the current themes and tools—chaos, adaptive systems, genetic algorithms—for analyzing complexity and complex systems. There are updates throughout the book as well. These take into account important advances in cognitive psychology and the science of design while confirming and extending the book's basic thesis: that a physical symbol system has the necessary and sufficient means for intelligent action. The chapter "Economic Reality" has also been revised to reflect a change in emphasis in Simon's thinking about the respective roles of organizations and markets in economic systems.

Biodiversity and Conservation

Routledge This revised second edition provides an introductory guide through the maze of interdisciplinary themes that comprise 'biodiversity.' It combines biological sciences with insights into the origins, variety and distribution of biodiversity, analysis of the social and political context, and the threats to, and opportunities for, the survival of natural systems. Whilst retaining its existing structure, this updated new edition reflects advances that have demonstrated the importance of living systems as drivers of environmental services vital to human health and security. The final chapter has been revised to tackle more explicitly the contrasting approaches to conservation, and throughout, the book has been updated to reflect new research and developments. With highly original international case studies and ample illustrations to explain difficult topics clearly, this excellent book remains the only introductory text which brings together the full range of theory and practice of 'biodiversity' and 'conservation'.

Biomedical Results from Skylab

Community Ecology

Oxford University Press Community ecology has undergone a transformation in recent years, from a discipline largely focused on processes occurring within a local area to a discipline encompassing a much richer domain of study, including the linkages between communities separated in space (metacommunity dynamics), niche and neutral theory, the interplay between ecology and evolution (eco-evolutionary dynamics), and the influence of historical and regional processes in shaping patterns of biodiversity. To fully understand these new developments, however, students continue to need a strong foundation in the study of species interactions and how these interactions are assembled into food webs and other ecological networks. This new edition fulfils the book's original aims, both as a much-needed up-to-date and accessible introduction to modern community ecology, and in identifying the important questions that are yet to be answered. This research-driven textbook introduces state-of-the-art community ecology to a new generation of students, adopting reasoned and balanced perspectives on as-yet-unresolved issues. *Community Ecology* is suitable for advanced undergraduates, graduate students, and researchers seeking a broad, up-to-date coverage of ecological concepts at the community level.

Education for Life and Work

Developing Transferable Knowledge and Skills in the 21st Century

National Academies Press Americans have long recognized that investments in public education contribute to the common good, enhancing national prosperity and supporting stable families, neighborhoods, and communities. Education is even more critical today, in the face of economic, environmental, and social challenges. Today's children can meet future challenges if their schooling and informal learning activities prepare them for adult roles as citizens, employees, managers, parents, volunteers, and entrepreneurs. To achieve their full potential as adults, young people need to develop a range of skills and knowledge that facilitate mastery and application of English, mathematics, and other school subjects. At the same time, business and political leaders are increasingly asking schools to develop skills such as problem solving, critical thinking, communication, collaboration, and self-management - often referred to as "21st century skills." *Education for Life and Work: Developing Transferable Knowledge and Skills in the 21st Century* describes this important set of key skills that increase deeper learning, college and career readiness, student-centered learning, and higher order thinking. These labels include both cognitive and non-cognitive skills- such as critical thinking, problem solving, collaboration, effective communication, motivation, persistence, and learning to learn. 21st century skills also include creativity, innovation, and ethics that are important to later success and may be developed in formal or informal learning environments. This report also describes how these skills relate to each other and to more traditional academic skills and content in the key disciplines of reading, mathematics, and science. *Education for Life and Work: Developing Transferable Knowledge and Skills in the 21st Century* summarizes the findings of the research that investigates the importance of such skills to success in education, work, and other areas of adult responsibility and that demonstrates the importance of developing these skills in K-16 education. In this report, features related to learning these skills are identified, which include teacher professional development, curriculum,

assessment, after-school and out-of-school programs, and informal learning centers such as exhibits and museums.

THE LIVING ENVIRONMENT

Prentice Hall

HOLT SCIENCE AND TECHNOLOGY 2002

WATER ON EARTH

METHODS OF BEHAVIOR ANALYSIS IN NEUROSCIENCE

CRC Press Using the most well-studied behavioral analyses of animal subjects to promote a better understanding of the effects of disease and the effects of new therapeutic treatments on human cognition, *Methods of Behavior Analysis in Neuroscience* provides a reference manual for molecular and cellular research scientists in both academia and the pharmaceutical

HMH SCIENCE HOMESCHOOL PACKAGE

Holt McDougal

SUPERBUGS

AN ARMS RACE AGAINST BACTERIA

Harvard University Press Antibiotics are powerful drugs that can prevent and treat infections, but they are becoming less effective as a result of drug resistance. Resistance develops because the bacteria that antibiotics target can evolve ways to defend themselves against these drugs. When antibiotics fail, there is very little else to prevent an infection from spreading. Unnecessary use of antibiotics in both humans and animals accelerates the evolution of drug-resistant bacteria, with potentially catastrophic personal and global consequences. Our best defenses against infectious disease could cease to work, surgical procedures would become deadly, and we might return to a world where even small cuts are life-threatening. The problem of drug resistance already kills over one million people across the world every year and has huge economic costs. Without action, this problem will become significantly worse. Following from their work on the Review on Antimicrobial Resistance, William Hall, Anthony McDonnell, and Jim O'Neill outline the major systematic failures that have led to this growing crisis. They also provide a set of solutions to tackle these global issues that governments, industry, and public health specialists can adopt. In addition to personal behavioral modifications, such as better handwashing regimens, *Superbugs* argues for mounting an offense against this threat through agricultural policy changes, an industrial research stimulus, and other broad-scale economic and social incentives.