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[Encyclopedia of Nuclear Energy](#) University Press of Kentucky

Encyclopedia of Nuclear Energy provides a comprehensive and reliable overview of the many ways nuclear energy contributes to society.

Comprised of four volumes, it includes topics such as generating clean electricity, improving medical diagnostics and cancer treatment, improving crop yields, improving food shelf-lives, and crucially, the deployment of nuclear energy as an alternative energy source, one that is proving to be essential in the management of global warming. Carefully structured into thematic sections, this encyclopedia brings together the vast and highly diversified literature related to nuclear energy into a single resource, with convenient to read, cross-referenced chapters. This book will serve as an invaluable resource for researchers in the fields of energy, engineering, material science, chemistry, and physics, from both industry and academia. Offers a contemporary review of current nuclear energy research and insights into the future direction of the field, hence negating the need for individual searches across various databases Written by academics and practitioners from different fields to ensure that the knowledge within is easily understood by, and applicable to, a large audience Meticulously organized, with articles split into sections on key topics and clearly cross-referenced to allow students, researchers and professionals to quickly and easily find relevant information

[The Science and Applications of Microbial Genomics](#) National Council of Teachers

Since its introduction in the latter half of the 1980s, the meticulous study of distinct criminal career dimensions, like onset, frequency, and crime mix, has yielded a wealth of information on the way crime develops over the life-span. Policymakers in turn have used this information in their efforts to tailor criminal justice interventions to be both effective and efficient. Life-course criminology studies the ways in which the criminal career is embedded in the totality of the individual life-course and seeks to clarify the causal mechanisms governing this process. The Routledge International Handbook of Life-Course Criminology provides an authoritative collection of international theoretical and empirical research into the way that criminal behavior develops over the life-span, which causal mechanisms are involved in shaping this development, and to what degree criminal justice interventions are successful in redirecting offenders' criminal trajectories. Drawing upon qualitative and quantitative research this handbook covers theory, describes and compares criminal career patterns across different countries, tests current explanations of criminal development, and using cutting-edge methods, assesses the intended and unintended effects of formal interventions. This book is the first of its kind to offer a comprehensive overview of state-of-the-art developments in criminal career and life-course research, providing unique perspectives and exclusive local knowledge from over 50 international scholars. This book is an ideal companion for teachers and researchers engaged in the field of developmental and life-course criminology.

[Brief Answers to the Big Questions](#) Harcourt College Pub

A radical reappraisal of Charles Darwin from the bestselling author of *Victoria: A Life*. With the publication of *On the Origin of Species*, Charles Darwin—hailed as the man who "discovered evolution"—was propelled into the pantheon of great scientific thinkers, alongside Galileo, Copernicus, and Newton. Eminent writer A. N. Wilson challenges this long-held assumption. Contextualizing Darwin and his ideas, he offers a groundbreaking critical look at this revered figure in modern science. In this beautifully written, deeply erudite portrait, Wilson argues that Darwin was not an original scientific thinker, but a ruthless and determined self-promoter who did not credit the many great sages whose ideas he advanced in his book. Furthermore, Wilson contends that religion and Darwinism have much more in common than it would seem, for the acceptance of Darwin's theory involves a pretty significant leap of faith. Armed with an extraordinary breadth of knowledge, Wilson explores how Darwin and his theory were very much a product of their place and time. The "Survival of the Fittest" was really the Survival of Middle Class families like the Darwins—members of a relatively new economic strata who benefited from the rising Industrial Revolution at the expense of the working classes. Following Darwin's theory, the wretched state of the poor was an outcome of nature, not the greed and neglect of the moneyed classes. In a paradigm-shifting conclusion, Wilson suggests that it remains to be seen, as this class dies out, whether the Darwinian idea will survive, or whether it, like other Victorian fads, will become a footnote in our intellectual history. Brilliant, daring, and ambitious, Charles Darwin explores this legendary man as never before, and challenges us to reconsider our understanding of both Darwin and modern science itself.

[Complexity Theory and the Philosophy of Education](#) Sense Pub

This book probes the efforts at manipulation individuals face daily in this information age and the tactics of persuaders from many sectors of society using various forms of Orwellian "doublespeak." The book contains the following essays: (1) "Notes toward a Definition of Doublespeak" (William Lutz); (2) "Truisms Are True: Orwell's View of Language" (Walker Gibson); (3) "Mr. Orwell, Mr. Schlesinger, and the Language" (Hugh Rank); (4) "What Do We Know?" (Charles Weingartner); (5) "The Dangers of Singlespeak" (Edward M. White); (6) "The Fallacies of Doublespeak" (Dennis Rohatyn); (7) "Doublespeak and Ethics" (George R. Bramer); (8) "Post-Orwellian Refinements of Doublethink: Will the Real Big Brother Please Stand Up?" (Donald Lazere); (9) "Worldthink" (Richard Ohmann); (10) "Bullets Hurt, Corpses Stink": George Orwell and the Language of Warfare" (Harry Brent); (11) "Political Language: The Art of Saying Nothing" (Dan F. Hahn); (12) "Fiddle-Faddle, Flapdoodle, and Balderdash: Some Thoughts about Jargon" (Frank J. D'Angelo); (13) "How to Read an Ad: Learning to Read between the Lies" (D. G. Kehl); (14) "Subliminal Chainings: Metonymical Doublespeak in Advertising" (Don L. F. Nilsen); (15) "Doublespeak and the Polemics of Technology" (Scott Buechler); (16) "Make Money, Not Sense: Keep Academia Green" (Julia Penelope); (17) "Sensationspeak in America" (Roy F. Fox); and (18)

"The Pop Grammarians--Good Intentions, Silly Ideas, and Doublespeak" (Charles Suhor). Three appendixes are attached: "The George Orwell Awards," "The Doublespeak Award," and "The Quarterly Review of Doublespeak." (MS)

[Darwin's Doubt](#) Zondervan Academic

A leading intelligent design supporter writes to prove a good God's existence in an evil world, in turn explaining what the end result of true Christianity must be.

[Soil Mineralogy with Environmental Applications](#) Psychology Press

Examined in this book are issues related to the education of at-risk children and youth. Part 1 of the volume consists of 12 original papers presented and discussed at the Council of Chief State School Officers' (CCSSO) 1987 Summer Institute. Papers concern: (1) values, standards, and climate in schools serving students at risk; (2) schools and poor communities; (3) race, income, and educational inequality; (4) why effective schools rarely exist for at-risk elementary school and adolescent students; (5) contexts that constrict and construct the lives and minds of public school adolescents; (6) educational challenges and opportunities in serving limited-English-proficient students; (7) achievement for at-risk students; (8) productive educational practices for at-risk youth; (9) public support for successful instructional practices for at-risk students; (10) accelerating elementary education for disadvantaged students; (11) adolescent pregnancy prevention; and (12) building a network of opportunity for the majority of youth through a public/private careers service. A summary and discussion of the institute concludes this part; part 2 contains the Council's recommendations for action, policy statement, analysis of goals and activities to be pursued by the Chief State School Officers, and a model state statute to provide educational entitlements for at-risk students. (RH)

[Prudent Practices in the Laboratory](#) Springer Science & Business Media

Philosophy for AS and A2 is the definitive textbook for students of Advanced Subsidiary or Advanced Level courses. The book is structured directly around the AQA specification, devoting a chapter each to the six themes covered by the syllabus.

[A History of Western Philosophy, and Its Connection with Political and Social Circumstances from the Earliest Times to the Present Day](#) National Academies Press

This book is open access under a CC BY 4.0 license. We must find new and innovative ways of conceptualizing transboundary energy issues, of embedding concerns of ethics or justice into energy policy, and of operationalizing response to them. This book stems from the emergent gap; the need for comparative approaches to energy justice, and for those that consider ethical traditions that go beyond the classical Western approach. This edited volume unites the fields of energy justice and comparative philosophy to provide an overarching global perspective and approach to applying energy ethics. We contribute to this purpose in four sections: setting the scene, practice, applying theory to practice, and theoretical approaches. Through the chapters featured in the volume, we position the book as one that contributes to energy justice scholarship across borders of nations, borders of ways of thinking and borders of disciplines. The outcome will be of interest to undergraduate and graduate students studying energy justice, ethics and environment, as well as energy scholars, policy makers, and energy analysts.

[University Physics](#) MDPI

Over the past several decades, new scientific tools and approaches for detecting microbial species have dramatically enhanced our appreciation of the diversity and abundance of the microbiota and its dynamic interactions with the environments within which these microorganisms reside. The first bacterial genome was sequenced in 1995 and took more than 13 months of work to complete. Today, a microorganism's entire genome can be sequenced in a few days. Much as our view of the cosmos was forever altered in the 17th century with the invention of the telescope, these genomic technologies, and the observations derived from them, have fundamentally transformed our appreciation of the microbial world around us. On June 12 and 13, 2012, the Institute of Medicine's (IOM's) Forum on Microbial Threats convened a public workshop in Washington, DC, to discuss the scientific tools and approaches being used for detecting and characterizing microbial species, and the roles of microbial genomics and metagenomics to better understand the culturable and unculturable microbial world around us. Through invited presentations and discussions, participants examined the use of microbial genomics to explore the diversity, evolution, and adaptation of microorganisms in a wide variety of environments; the molecular mechanisms of disease emergence and epidemiology; and the ways that genomic technologies are being applied to disease outbreak trace back and microbial surveillance. Points that were emphasized by many participants included the need to develop robust standardized sampling protocols, the importance of having the appropriate metadata, data analysis and data management challenges, and information sharing in real time. The Science and Applications of Microbial Genomics summarizes this workshop.

Cicatrising Conjunctivitis Regent College Publishing

The definitive work on the profound and surprising links between manic-depression and creativity, from the bestselling psychologist of bipolar disorders who wrote *An Unquiet Mind*. One of the foremost psychologists in America, "Kay Jamison is plainly among the few who have a profound understanding of the relationship that exists between art and madness" (William Styron). The anguished and volatile intensity associated with the artistic temperament was once thought to be a symptom of genius or eccentricity peculiar to artists, writers, and musicians. Her work, based on her study as a clinical psychologist and researcher in mood disorders, reveals that many artists subject to exalted highs and despairing lows were in fact engaged in a struggle with clinically identifiable manic-depressive illness. Jamison presents proof of the biological foundations of this disease and applies what is known about the illness to the lives and works of some of the world's greatest artists including Lord Byron, Vincent Van Gogh, and Virginia Woolf.

Tobacco Culture Soil Science Society of Amer

When Charles Darwin finished *The Origin of Species*, he thought that he had explained every clue, but one. Though his theory could explain many facts, Darwin knew that there was a significant event in the history of life that his theory did not explain. During this event, the "Cambrian explosion," many animals suddenly appeared in the fossil record without apparent ancestors in earlier layers of rock. In Darwin's Doubt, Stephen C. Meyer tells the story of the mystery surrounding this explosion of animal life—a mystery that has intensified, not only because the expected ancestors of these animals have not been found, but because scientists have learned more about what it takes to construct an animal. During the last half century, biologists have come to appreciate the central importance of biological information—stored in DNA and elsewhere in cells—to building animal forms. Expanding on the compelling case he presented in his last book, *Signature in the Cell*, Meyer argues that the origin of this information, as well as other mysterious features of the Cambrian event, are best explained by intelligent design, rather than purely undirected evolutionary processes.

The Geography of Tourism and Recreation Cornell University Press

Christianity believes in a God who acts in history. The Bible tells us the story of God's actions in Israel, culminating in the ministry of Jesus of Nazareth and the spreading of the gospel from Jerusalem to Rome. The issue of history is thus unavoidable when it comes to reading the Bible. Volume 4 of the Scripture and Hermeneutics Series looks at how history has dominated biblical studies under the guise of historical criticism. This book explores ways in which different views of history influence interpretation. It considers the implications of a theology of history for biblical exegesis, and in several case studies it relates these insights to particular texts. "Few topics are more central to the task of biblical interpretation than history, and few books open up the subject in so illuminating and thought-provoking a manner as this splendid collection of essays and responses." Hugh Williamson, Regius Professor of Hebrew, University of Oxford, England ". . . breaks new ground in its interdisciplinary examination of the methodology, presuppositions, practices and purposes of biblical hermeneutics, with a special emphasis on the relation of faith and history." Eleonore Stump, Robert J. Henle Professor of Philosophy, Saint Louis University, United States "This volume holds great promise for the full-fledged academic recovery of the Bible as Scripture. It embodies an unusual combination of world-class scholarship, historic Christian orthodoxy, bold challenges to conventional wisdom, and the launching of fresh new ideas." Al Wolters, Professor of Religion and Theology, Redeemer University College, Ontario, Canada "The essays presented here respect the need and fruitfulness of a critical historiography while beginning the much-needed process of correcting the philosophical tenets underlying much modern and postmodern biblical research. The result is a book that mediates a faith understanding, both theoretical and practical, of how to read the Bible authentically as a Christian today." Francis Martin, Chair, Catholic-Jewish Theological Studies, John Paul II Cultural Center, Washington, D.C. Not only is history central to the biblical story, but from a Christian perspective history revolves around Jesus Christ. All roads of human activity before Christ lead up to him, and all roads after Christ connect with him. A concern with history and God's action in it is a central characteristic of the Bible. The Bible furnishes us with an account of God's interactions with people and with the nation of Israel that stretches down the timeline from creation to the early church. It tells us of real men, women, and children, real circumstances and events, real cultures, places, languages, and worldviews. And it shows us God at work in human affairs, revealing his character and heart through his activities.

"Behind" the Text examines the correlation between history and the Bible. For the scholar, student, and informed reader of the Bible, this volume highlights the importance of history for biblical interpretation, and looks at how history has and should influence interpretation.

Religion and Crime: Theory, Research, and Practice Free Press

"University Physics is a three-volume collection that meets the scope and sequence requirements for two- and three-semester calculus-based physics courses. Volume 1 covers mechanics, sound, oscillations, and waves. This textbook emphasizes connections between theory and application, making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. Frequent, strong examples focus on how to approach a problem, how to work with the equations, and how to check and generalize the result."--Open Textbook Library.

HISTORY OF OLD CHESTER Oxford University Press

University Physics

The Medical Journal of Australia Routledge

A review of recent advancements in colloidal nanocrystals and quantum-confined nanostructures, *Nanocrystal Quantum Dots* is the second edition of *Semiconductor and Metal Nanocrystals: Synthesis and Electronic and Optical Properties*, originally published in 2003. This new title reflects the book's altered focus on semiconductor nanocrystals. Gathering contributions from leading researchers, this book contains new chapters on carrier multiplication (generation of multiexcitons by single photons), doping of semiconductor nanocrystals, and applications of nanocrystals in biology. Other updates include: New insights regarding the underlying mechanisms supporting colloidal nanocrystal growth A revised general overview of multiexciton phenomena, including spectral and dynamical signatures of multiexcitons in transient absorption and photoluminescence Analysis of nanocrystal-specific features of multiexciton recombination A review of the status of new field of carrier multiplication Expanded coverage of theory, covering the regime of high-charge densities New results on quantum dots of lead chalcogenides, with a focus studies of carrier multiplication and the latest results regarding Schottky junction solar cells Presents useful examples to illustrate applications of nanocrystals in biological labeling, imaging, and diagnostics The book also includes a review of recent progress made in biological applications of colloidal nanocrystals, as well as a comparative analysis of the advantages and limitations of techniques for preparing biocompatible quantum dots. The authors summarize the latest developments in the synthesis and understanding of magnetically doped semiconductor nanocrystals, and they present a detailed discussion of issues related to the synthesis, magneto-optics, and photoluminescence of doped colloidal nanocrystals as well. A valuable addition to the pantheon of literature in the field of nanoscience, this book presents pioneering research from experts whose work has led to the numerous advances of the past several years.

The Routledge International Handbook of Life-Course Criminology Springer Nature

In recent years, business leaders, policymakers, and inventors have complained to the media and to Congress that today's patent system stifles innovation instead of fostering it. But like the infamous patent on the peanut butter and jelly sandwich, much of the cited evidence about the patent system is pure anecdote--making realistic policy formation difficult. Is the patent system fundamentally broken, or can it be fixed with a few modest reforms? Moving beyond rhetoric, *Patent Failure* provides the first authoritative and comprehensive look at the economic performance of patents in forty years. James Bessen and Michael Meurer ask whether patents work well as property rights, and, if not, what institutional and legal reforms are necessary to make the patent system more effective. *Patent Failure* presents a wide range of empirical evidence from history, law, and economics. The book's findings are stark and conclusive. While patents do provide incentives to invest in research, development, and commercialization, for most businesses today, patents fail to provide predictable property rights. Instead, they produce costly disputes and excessive litigation that outweigh positive incentives. Only in some sectors, such as the pharmaceutical industry, do patents act as advertised, with their benefits outweighing the related costs. By showing how the patent system has fallen short in providing predictable legal boundaries, *Patent Failure* serves as a call for change in institutions and laws. There are no simple solutions, but Bessen and Meurer's reform proposals need to be heard. The health and competitiveness of the nation's economy depend on it.

Patent Failure B&H Publishing Group

Prudent Practices in the Laboratory—the book that has served for decades as the standard for chemical laboratory safety practice—now features updates and new topics. This revised edition has an expanded chapter on chemical management and delves into new areas, such as nanotechnology, laboratory security, and emergency planning. Developed by experts from academia and industry, with specialties in such areas as chemical sciences, pollution prevention, and laboratory safety, *Prudent Practices in the Laboratory* provides guidance on planning procedures for the handling, storage, and disposal of chemicals. The book offers prudent practices designed to promote safety and includes practical information on assessing hazards, managing chemicals, disposing of wastes, and more. *Prudent Practices in the Laboratory* will continue to serve as the leading source of chemical safety guidelines for people working with laboratory chemicals: research chemists, technicians, safety officers, educators, and students.

Sexually Transmitted Diseases Psychology Press

#1 NEW YORK TIMES BESTSELLER • The world-famous cosmologist and author of *A Brief History of Time* leaves us with his final thoughts on the biggest questions facing humankind. "Hawking's parting gift to humanity . . . a book every thinking person worried about humanity's future should read."—NPR NAMED ONE OF THE BEST BOOKS OF THE YEAR BY Forbes • The Guardian • Wired Stephen Hawking was the most renowned scientist since Einstein,

known both for his groundbreaking work in physics and cosmology and for his mischievous sense of humor. He educated millions of readers about the origins of the universe and the nature of black holes, and inspired millions more by defying a terrifying early prognosis of ALS, which originally gave him only two years to live. In later life he could communicate only by using a few facial muscles, but he continued to advance his field and serve as a revered voice on social and humanitarian issues. Hawking not only unraveled some of the universe's greatest mysteries but also believed science plays a critical role in fixing problems here on Earth. Now, as we face immense challenges on our planet—including climate change, the threat of nuclear war, and the development of artificial intelligence—he turns his attention to the most urgent issues facing us. Will humanity survive? Should we colonize space? Does God exist? These are just a few of the questions Hawking addresses in this wide-ranging, passionately argued final book from one of the greatest minds in history. Featuring a foreword by Eddie Redmayne, who won an Oscar playing Stephen Hawking, an introduction by Nobel Laureate Kip Thorne, and an afterword from Hawking's daughter, Lucy, *Brief Answers to the Big Questions* is a brilliant last message to the world. Praise for *Brief Answers to the Big Questions* "[Hawking is] a symbol of the soaring power of the human mind."—*The Washington Post* "Hawking's final message to readers . . . is a hopeful one."—*CNN* "Brisk, lucid peeks into the future of science and of humanity."—*The Wall Street Journal* "Hawking pulls no punches on subjects like machines taking over, the biggest threat to Earth, and the possibilities of intelligent life in space."—*Quartz* "Effortlessly instructive, absorbing, up to the minute and—where it matters—witty."—*The Guardian* "This beautiful little book is a fitting last twinkle from a new star in the firmament above."—*The Telegraph*

The Engineer Bantam

Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. *Transforming the Workforce for Children Birth Through Age 8* explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. *Transforming the Workforce for Children Birth Through Age 8* offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

Our Idea of God Karger Medical and Scientific Publishers

Cicatrising conjunctivitis is one of the most challenging causes of ocular surface disease today and without appropriate intervention, corneal blindness or loss of sight from supervening infection is common. Because many of these diseases are rare, there is often limited management experience available and the resources for research into treatment and pathogenesis are scarce. This book summarizes present treatment strategies and the clinical and laboratory studies validating these approaches. Topics discussed in this ambitious volume include an in-depth look at non-progressive causes including trachoma, Stevens-Johnson syndrome and ligneous conjunctivitis. It also examines chronic progressive conjunctival cicatrization, the diseases which cause it, their clinical and laboratory evaluation, immunopathogenesis, sequelae and management. Armed with this knowledge, successful intervention can be planned for the prevention and treatment of a group of diseases previously associated with poor prognoses. Ophthalmologists and dermatologists seeking practical advice about the management of these diseases will benefit most from this book.