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 The Routledge Handbook of Research Methods for Social-Ecological Systems
 Encyclopedia of Environmental Science and Engineering, Sixth Edition (Print Version)
 Unsettled
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 A Practitioner's Guide
 In a Human-Shaped World
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 The Life of Prince Henry of Portugal, Surnamed the Navigator, and Its Results

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CUMMINGS LAM

[The Role of the National Science Foundation : Interim Report](#) Vintage

This collection of informative and pleasurable essays by Henry Petroski elucidates the role of engineers in shaping our environment in countless ways, big and small. In Remaking the World Petroski gravitates this time, perhaps, toward the big: the English Channel tunnel, the Panama Canal, Hoover Dam, the QE2, and the Petronas Twin Towers in Malaysia, now the tallest buildings in the world. He profiles Charles Steinmetz, the genius of the General Electric Company; Henry Martyn Robert, a military engineer who created Robert's Rules of Order; and James Nasmyth, the Scotsman whose machine tools helped shape nineteenth-century ocean and rail transportation. Petroski sifts through the fossils of technology for cautionary tales and remarkable twists of fortune, and reminds us that failure is often a necessary step on the path to new discoveries. He explains soil mechanics by way of a game of "rock, scissors, paper," and clarifies fundamental principles of engineering through the spokes of a Ferris wheel. Most of all, Henry Petroski continues to celebrate the men and women whose scrawls on the backs of envelopes have immeasurably improved our world.

[Henry James](#) Elsevier

The Foundations of Remembering presents a collection of essays written by top memory scholars in honor of Henry L. Roediger III. The chapters were originally delivered as part of the "Roddyfest" conference held in March 2005 to celebrate Purdue University's awarding of an honorary doctor of

letters to Roediger in recognition of his many contributions to the field of psychology. Authors were given a simple charge: choose your own topic, but place your work in historical context. Roediger is fascinated by the intellectual lineage of ideas, so addressing historical "foundations" seemed a fitting tribute. The Chapters contained in this volume help to establish the foundations of remembering, circa the first decade of the 21st century, as perceived by some of the leading memory researchers in the world. Not surprisingly, each of the chapters touches on Roediger's research as well, largely because his work has helped to define and clarify many topics of interest to the memory field. The Foundations of Remembering is intended for a wide audience: students, scholars, and anyone interested in exploring the historical and conceptual roots of modern memory theory.

[The Essential Engineer](#) Butterworth-Heinemann

One of the world's leading social critics and educational theorists, Henry A. Giroux has contributed significantly to critical pedagogy, cultural studies, youth studies, social theory, and cultural politics. This new book offers a carefully selected cross-section of Giroux's many scholarly and popular writings, which bridge the theoretical and practical, integrate multiple academic disciplines, and fuse scholarly rigor with social relevance. The essays underscore the continuities and transformations in Giroux's thought, just as they offer invaluable approaches to understanding a range of social problems. Giroux's work suggests that a more humane and democratic world is possible and provides critical tools that can assist concerned citizens in bringing it into being.

Addressing Grand Challenges National Academies Press

"The authors ... continue the pursuit of new knowledge, calculated to bring new fruits of health, safety, and comfort to man and his environs. The

charms, as well as the subtle hazards, of the terms 'conservation, preservation, and ecology' need to be crystallized so that the public and their decision-makers practice this complex art with clearer conception and perception than is apparent in recent bitter confrontations." —From the Foreword to the Fourth Edition by Abel Wolman What's New in This Edition: New entries on environmental and occupational toxicology, geoengineering, and lead abatement Twenty-five significantly updated entries, including expanded discussion of water supplies and waste water treatment, biomass and renewable energy, and international public health issues An expanded list of acronyms and abbreviations Encyclopedia of Environmental Science and Engineering, Sixth Edition is still the most comprehensive, authoritative reference available in the field. This monumental two-volume encyclopedia now includes entries on topics ranging from acid rain, air pollution, and community health to environmental law, instrumentation, modeling, alternative energy, radioactive waste, and water treatment. The broad coverage includes highly specialized topics as well as those that transcend traditional disciplinary boundaries, reflecting the interdisciplinary skills and knowledge required by environmental researchers and engineers. Featuring expert contributors representing industry, academia, and government agencies, the encyclopedia presents fundamental concepts and applications in environmental science and engineering. The entries are supported by extensive figures, photographs, tables, and equations. This sixth edition includes new material on water supplies and wastewater treatment, biomass and renewable energy, and international public health issues. New entries cover environmental and occupational toxicology, geoengineering, and lead abatement. The Encyclopedia of Environmental Science and Engineering provides a view of the field that helps readers understand, manage, and respond to threats to the human environment. Contact us to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367 / (email) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062 / (email) online.sales@tandf.co.uk

The Road Ahead Vintage

Climate change is a key problem of the 21st century. China, as the largest emitter of greenhouse gases, has committed to stabilize its current emissions and dramatically increase the share of electricity production from non-fossil fuels by 2030. However, this is only a first step: in the longer term, China needs to aggressively strive to reach a goal of zero-emissions. Through detailed discussions of electricity pricing, electric vehicle policies, nuclear energy policies, and renewable energy policies, this book reviews how near-term climate and energy policies can affect long-term decarbonization pathways beyond 2030, building the foundations for decarbonization in advance of its realization. Focusing primarily on the electricity sector in China - the main battleground for decarbonization over the next century - it provides a valuable resource for researchers and policymakers, as well as energy and climate experts.

Encyclopedia of Environmental Science Routledge

Environmental Systems Engineering explains how to use new computerized tools to tackle problems in systems engineering. This book covers: expert systems, fuzzy logic, networks, process dynamics, control and statistical approaches to systems analysis. Computer simulation, mathematical models, and newer methods that apply artificial intelligence and neural networks to environmental problems are emphasized. Each book topic is supported by an interactive web site featuring computer graphics, teaching games and navigational aids. Topics are developed through the use of computer exercises using practical problems as examples.

The Problem of Leisure Transaction Publishers

Life cycle assessment (LCA) is used to evaluate the environmental impacts of textile products, from raw material extraction, through fibre processing, textile manufacture, distribution and use, to disposal or recycling. LCA is an important tool for the research and development process, product and process design, and labelling of textiles and clothing. Handbook of Life Cycle Assessment (LCA) of Textiles and Clothing systematically covers the LCA process with comprehensive examples and case studies. Part one of the book covers key indicators and processes in LCA, from carbon and ecological footprints to disposal, re-use and recycling. Part two then discusses a broad range of LCA applications in the textiles and clothing industry. Covers the LCA process and its key indicators, including carbon and ecological footprints, disposal, re-use and recycling Examines the key developments of LCA in the textile and clothing industries Provides a wide range of case studies and examples of LCA applications in the textile and clothing industries

Principles of Environmental Thermodynamics and Kinetics, Fourth Edition Cambridge University Press

A personal journey into our evolving relationships with animals, and a thought-provoking look at how those bonds are being challenged and reformed across disciplines We love animals, but does that make the animals' lives any happier? With factory farms, climate change and deforestation, this might be the worst time in history to be an animal. If we took animals' experiences seriously, how could we eat, think and live differently? How to Love Animals is a lively and important portrait of our evolving relationship with animals, and how we can share our planet fairly. Mance works in a slaughterhouse and on a pig farm to explore the reality of eating meat and dairy. He explores our dilemmas over hunting wild animals, over-fishing the seas, visiting zoos and saving wild spaces. What might happen if we extended the love we show to our pets to other sentient beings? In an age of extinction and pandemics, our relationship with animals has become unsustainable. Mance argues that there has never been a better time to become vegetarian or vegan, and that the conservation movement can flourish, if people in wealthy countries shrink their footprint. Mance seeks answers from chefs, farmers, activists, philosophers, politicians and tech visionaries who are redefining how we think about animals. Inspired by the author's young daughters, his book is a story of discovery and hope that outlines how we can find a balance with animals that fits with our basic love for them. *Handbook of Life Cycle Assessment (LCA) of Textiles and Clothing* Springer Science & Business Media

First published in 1938. This study examines various aspects of leisure in the early twentieth century. The author observes the differences in leisure between the various echelons of society, as well as the differences of leisure amongst children and adults. Durant also explores in depth several modes of leisure, including the cinema, sport, and gambling. This title will be of interest to students of history, sociology, and leisure studies.

Environmental Science and Engineering Psychology Press

This book deals with basic principles such as chemical equilibrium and chemical processes, concepts which make up the basic tools necessary to design a more efficient system to solve environmental problems. Useful as a textbook for both graduate and undergraduate, the material also serves as an excellent source for professional research in the field of environmental engineering or environmental science./a
Routledge

Harnessing Nanoscale Surface Interactions: Contemporary Synthesis, Applications and Theory provides coverage of contemporary theoretical and experimental approaches to understanding the interactions of molecules with nanomaterial surfaces and how to utilize these processes for improved synthesis and application of materials. The book reviews recently developed theoretical techniques to explore bonding interactions in nanoclusters and small molecules, along with modern molecular dynamics approaches for investigation adsorption of large molecules on nanomaterials. Novel experimental approaches are described that provide improved control of the synthesis of metal nanoparticles and measurement of their absorption properties. The potential for nanomaterials to address a range of environmental problems is also demonstrated by a selection of specific applications. Chapters discuss experimental synthesis approaches, experimental analysis and applications, and theoretical approaches for harnessing nanoscale surface interactions. Includes exploration of the latest theoretical techniques, including regional density functional theory and molecular dynamics simulations Addresses nanoscale interfaces and how they relate to the toxicity of nanomaterials, crucial for potential diagnosis and medical applications

Pragmatic Statesman in Hostile Times National Academies Press

This text focuses on current environmental problems, their causes, effects and solutions. The book explores the basic nature of the natural systems, using a quantitative approach in order to give a broad perspective.

Environmental Science and Engineering for the 21st Century Routledge

Examines many of the failed designs and inventions that led to greater improvements citing as examples the 1940 collapse of the Tacoma Narrows Bridge and the space shuttle disasters.

What Climate Science Tells Us, What It Doesn't, and Why It Matters Routledge

In anticipation of future environmental science and engineering challenges and technologic advances, EPA asked the National Research Council (NRC) to assess the overall capabilities of the agency to develop, obtain, and use the best available scientific and technologic information and tools to meet persistent, emerging, and future mission challenges and opportunities. Although the committee cannot predict with certainty what new environmental problems EPA will face in the next 10 years or more, it worked to identify some of the common drivers and common characteristics of problems that are likely to occur. Tensions inherent to the structure of EPA's work contribute to the current and persistent challenges faced by the agency, and meeting those challenges will require development of leading-edge scientific methods, tools, and technologies, and a more deliberate approach to systems thinking and interdisciplinary science. Science for Environmental Protection: The Road Ahead outlines a framework for building science for environmental protection in the 21st century and identified key areas where enhanced leadership and capacity can strengthen the agency's abilities to address current and emerging environmental challenges as well as take advantage of new tools and technologies to address them. The foundation of EPA science is strong, but the agency needs to continue to address numerous present and future challenges if it is to maintain its science leadership and meet its expanding mandates.

Henry Ford Environmental Science and Engineering Focused on current environmental problems, their causes, effects, and solutions, this text explores the basic nature of the natural systems. Using a technical (quantitative) approach - unusual for a book at the introductory level - it maintains a broad perspective that appeals to all students, but at the same time is useful to those proceeding further in environmental or sanitary engineering.

*features unusually broad and balanced coverage of topics: in addition to the traditional topics of water quality, wastewater treatment, and air pollution, it explains the root causes of environmental problems and clarifies the relationships between natural systems and technology. *provides discussions on solid and hazardous wastes, environmental management, and ethics - topics seldom found in a single text. *offers an authoritative perspective on both theory and practice: the authors are world renowned scientists and engineers with academic and practical experience in environmental matters. *NEW - discusses the changing role of technology - e.g., preventive technology as an alternative to traditional end-of-pipe solutions. *NEW - considers recent data on the causes of environmental problems Environmental Science and Engineering

From the acclaimed author of *The Pencil* and *To Engineer Is Human*, *The Essential Engineer* is an eye-opening exploration of the ways in which science and engineering must work together to address our world's most pressing issues, from dealing with climate change and the prevention of natural disasters to the development of efficient automobiles and the search for renewable energy sources. While the scientist may identify problems, it falls to the engineer to solve them. It is the inherent practicality of engineering, which takes into account structural, economic, environmental, and other factors that science often does not consider, that makes engineering vital to answering our most urgent concerns. Henry Petroski takes us inside the research, development, and debates surrounding the most critical challenges of our time, exploring the feasibility of biofuels, the progress of battery-operated cars, and the question of nuclear power. He gives us an in-depth investigation of the various options for renewable energy—among them solar, wind, tidal, and ethanol—explaining the benefits and risks of each. Will windmills soon populate our landscape the way they did in previous centuries? Will synthetic trees, said to be more efficient at absorbing harmful carbon dioxide than real trees, soon dot our prairies? Will we construct a “sunshade” in outer space to protect ourselves from dangerous rays? In many cases, the technology already exists. What's needed is not so much invention as engineering. Just as the great achievements of centuries past—the steamship, the airplane, the moon landing—once seemed beyond reach, the solutions to the twenty-first century's problems await only a similar coordination of science and engineering. Eloquently reasoned and written, *The Essential Engineer* identifies and illuminates these problems—and, above all, sets out a course for putting ideas into action.

Remaking the World National Academies Press

Where should the United States focus its long-term efforts to improve the nation's environment? What are the nation's most important environmental issues? What role should science and technology play in addressing these issues? *Linking Science and Technology to Society's Environmental Goals* provides the current thinking and answers to these questions. Based on input from a range of experts and interested individuals, including representatives of industry, government, academia, environmental organizations, and Native American communities, this book urges policymakers to Use social science and risk assessment to guide decisionmaking. Monitor environmental changes in a more thorough, consistent, and coordinated manner. Reduce the adverse impact of chemicals on the environment. Move away from the use of fossil fuels. Adopt an environmental approach to

engineering that reduces the use of natural resources. Substantially increase our understanding of the relationship between population and consumption. This book will be of special interest to policymakers in government and industry; environmental scientists, engineers, and advocates; and faculty, students, and researchers.

Engineers of Dreams National Academies Press

Certain readers and critics have faulted Henry James for two contradictory reasons. He has been thought a writer limited in scope and depth in his treatment of a particular class of people. On the other hand, he has been thought to be too complex, too extreme in putting into difficult language his view of relationships between his chosen characters. Elizabeth Stevenson depicts Henry James as a stout and strong presence in the literature of the English language. From the relatively youthful, straightforward, and simple writing of his early years, to the involved complexities of his later stories, his significance cannot be denied. The barrier seems to have been a misunderstanding on the part of some. It is true nearly all of his characters are well clothed, well fed, and roofed comfortably. They are usually fairly well educated and talk literately and wittily. James rarely treats raw or wild nature, but he is sensitive to landscape as a background. He also does children well, and they are often outside the norms of society. Who is not touched by the uncanny in the tainted children of *The Turn of the Screw*, whether the taint is actually in the children or in the mind of the governess? In James, one may not travel physically a great deal, except to the resorts of those well-off financially and socially. One does travel extensively through the minds and hearts of his characters. The journey rewards the traveler. The delicacy of James' "melodramatic" insights causes tremor or appreciation from a reader. He describes the way life is, both horrible and wonderful. No one else has expressed this understanding in quite his way. Henry James: *The Crooked Corridor* will be of interest to students of American literature and general readers interested in biographies.

Environmental Science and Engineering Penguin

The most recent high-profile advocate for Americans with disabilities, actor Christopher Reeve, has highlighted for the public the economic and social costs of disability and the importance of rehabilitation. *Enabling America* is a major analysis of the field of rehabilitation science and engineering. The book explains how to achieve recognition for this evolving field of study, how to set priorities, and how to improve the organization and administration of the numerous federal research programs in this area. The committee introduces the "enabling-disability process" model, which enhances the concepts of disability and rehabilitation, and reviews what is known and what research priorities are emerging in the areas of: Pathology and impairment, including differences between children and adults. Functional limitations--in a person's ability to eat or walk, for example. Disability as the interaction between a person's pathologies, impairments, and functional limitations and the surrounding physical and social environments. This

landmark volume will be of special interest to anyone involved in rehabilitation science and engineering: federal policymakers, rehabilitation practitioners and administrators, researchers, and advocates for persons with disabilities.

Adaptive Environmental Management BenBella Books

A strongly interdisciplinary and wide-ranging survey of the environment of life on Earth: the most authoritative and comprehensive source on environmental science to be collected together in a single volume. Unique in presenting both a basic overview and detailed information on environmental topics. Entries are arranged in an encyclopedic A-Z format and contain extensive cross-references to related entries, as well as references to primary and secondary literature. Over 370 separate entries prepared by 228 leading experts from 25 countries. Incorporates 25 substantial in-depth treatments of key areas and also includes biographies of leading scientists and environmentalists. Contains a comprehensive subject index and a citation index of all referenced authors. The *Encyclopedia of Environmental Science* is a multidisciplinary reference work, which crosses many fields of interest and includes a wide variety of scholarly and authoritative articles on mankind's environment. It provides information on the atmosphere, hydrosphere, biosphere and geosphere and is careful to focus on the connections between these realms and the Earth as a whole. Taken as a whole, the *Encyclopedia* surveys basic environmental science and applied areas of study, and is drawn from the physical sciences, life sciences and social sciences. The 228 authors from 25 different countries, many of whom are the leading authorities in their field, include biologists, ecologists, geographers, geologists, political scientists, soil scientists, hydrologists, climatologists, and representatives of many other disciplines and academic specialties. The work, which is amply referenced and cross-referenced, consists of substantial essays on major topics, medium-sized entries and short definitional entries. The shorter entries include useful biographies of leading scientists and environmentalists. The *Encyclopedia* will be invaluable to all readers interested in the environment of life on Earth, its past, present and future, and its physical and social dimensions. The text provides a source of well-classified basic information as well as covering the leading theories and important debates in the environmental sciences. In addition, the book also includes assessments of the future prospects for the Earth's environment in the face of pollution, population increases and the accelerating transformation of land, air, water and vegetational systems. The *Encyclopedia* is unique in presenting both a basic overview and detailed information on environmental topics and is suitable for the general scientific reader and the specialized environmental scientist in academic institutions, research laboratories or private practice.

Assessing the Role of Rehabilitation Science and Engineering Routledge

Features articles on the contributions made by Henry Ford to American management, including coverage of his life and the history of the Ford Motor Company.

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