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[Weather and Society](#) Eve Gruntfest 2018-03-12
Weather and Society: Toward Integrated Approaches provides the first interdisciplinary approach to the subject of weather and society. This guide to the evolving set of problem-solving approaches to weather's societal issues successfully integrates social science's techniques, concepts and methodologies into meteorological research

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and practice. Drawing especially on the work of the WAS*IS workshops (Weather and Society * Integrated Studies), this important reference offers a framework for starting to understand how the consideration of societal impacts can enhance the scientific disciplines that address the scope and impacts of weather, particularly meteorology. Filled with tools, concepts, case studies and helpful exercises, this resource: Lays the

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groundwork for conducting interdisciplinary work by learning new strategies and addressing typical challenges Identifies leaders of the movement to integrate social science and meteorology and highlights their contributions Includes discussion of such tools as Geographic Information Systems, survey design, focus groups, participatory research and interviewing techniques and concepts Reveals effective integrated research and applications though real-world examples in a global context Helps to identify ways to pursue research, application, and educational opportunities for integrated weather-society work Weather and Society is a hands-on guide for academics, students and

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professionals that offers a new approach to the successful integration of social science concepts and methodologies into the fabric of meteorological research and practice.

Synthetic Sophia Roosth 2017-03 In the final years of the twentieth century, emigres from mechanical and electrical engineering and computer science resolved that if the aim of biology was to understand life, then making life would yield better theories than experimentation. Sophia Roosth, a cultural anthropologist, takes us into the world of these self-named synthetic biologists who, she shows, advocate not experiment but manufacture, not reduction but construction, not analysis but synthesis. Roosth reveals how synthetic bio

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make new living things in order to understand better how life works. What we see through her careful questioning is that the biological features, theories, and limits they fasten upon are determined circularly by their own experimental tactics. This is a story of broad interest, because the active, interested making of the synthetic biologists is endemic to the sciences of our time."

Teaching and Learning in Higher Education

Elizabeth Cleaver
2018-06-28 This book explores best practice approaches to undertaking enquiry into learning and teaching in higher education for staff from all academic disciplines. A general introduction to the methods most commonly used in undertaking enquiry in the field of education is

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complemented by chapters exploring how research methods from a range of disciplinary areas can be adapted and used for educational enquiry. New to this second edition:

- Chapters on interdisciplinary educational enquiry in geography and using ethnographic methods for educational enquiry
- New case studies and suggested activities
- A reflective final chapter inviting readers and their institutions to develop and promote an organisational culture founded on critical enquiry

This is essential reading for anyone undertaking HE qualifications in learning and teaching (including PGCTLHE and PGCAP) and for academics wishing to apply their skills of research and enquiry to their learning and teaching practice.

Natural Hazards Downloaded from mautech.edu.ng on September 25, 2023 by Herison k Grant

A. Keller 2016-07-07
Natural Hazards: Earth Processes as Hazards, Disasters and Catastrophes, Fourth Edition, is an introductory-level survey intended for university and college courses that are concerned with earth processes that have direct, and often sudden and violent, impacts on human society. The text integrates principles of geology, hydrology, meteorology, climatology, oceanography, soil science, ecology and solar system astronomy. The book is designed for a course in natural hazards for non-science majors, and a primary goal of the text is to assist instructors in guiding students who may have little background in science to understand physical earth processes as natural hazards and their consequences to

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society. Natural Hazards uses historical to recent examples of hazards and disasters to explore how and why they happen and what we can do to limit their effects. The text's up-to-date coverage of recent disasters brings a fresh perspective to the material. The Fourth Edition continues our new active learning approach that includes reinforcement of learning objective with a fully updated visual program and pedagogical tools that highlight fundamental concepts of the text. This program will provide an interactive and engaging learning experience for your students. Here's how: Provide a balanced approach to the study of natural hazards: Focus on the basic earth science of hazards as well as roles of human processes and effects on our planet in

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more balanced approach to the study of natural hazards. Enhance understanding and comprehension of natural hazards: Newly revised stories and case studies give students a behind the scenes glimpse into how hazards are evaluated from a scientific and human perspective; the stories of real people who survive natural hazards, and the lives and research of professionals who have contributed significantly to the research of hazardous events. Strong pedagogical tools reinforce the text's core features: Chapter structure and design organizes the material into three major sections to help students learn, digest, and review learning objectives.

Next Generation Search Engines: Advanced Models
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for Information

Retrieval Jouis, Christophe 2012-03-31
Recent technological progress in computer science, Web technologies, and the constantly evolving information available on the Internet has drastically changed the landscape of search and access to information. Current search engines employ advanced techniques involving machine learning, social networks, and semantic analysis. Next Generation Search Engines: Advanced Models for Information Retrieval is intended for scientists and decision-makers who wish to gain working knowledge about search in order to evaluate available solutions and to dialogue with software and data providers. The book aims to provide readers with a better idea of the

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trends in applied research.
History of Shock Waves, Explosions and Impact
Peter O. K. Krehl
2008-09-24 This unique and encyclopedic reference work describes the evolution of the physics of modern shock wave and detonation from the earlier and classical percussion. The history of this complex process is first reviewed in a general survey. Subsequently, the subject is treated in more detail and the book is richly illustrated in the form of a picture gallery. This book is ideal for everyone professionally interested in shock wave phenomena.

Encyclopedia of Science and Technology Communication
Susanna Hornig Priest
2010-07-14
The explosion of scientific information is exacerbating the information gap between
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richer/poorer, educated/less-educated publics. The proliferation of media technology and the popularity of the Internet help some keep up with these developments but also make it more likely others fall further behind. This is taking place in a globalizing economy and society that further complicates the division between information haves and have-nots and compounds the challenge of communicating about emerging science and technology to increasingly diverse audiences. Journalism about science and technology must fill this gap, yet journalists and journalism students themselves struggle to keep abreast of contemporary scientific developments. Scientist - aided by public

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relations and public information professionals - must get their stories out, not only to other scientists but also to broader public audiences. Funding agencies increasingly expect their grantees to engage in outreach and education, and such activity can be seen as both a survival strategy and an ethical imperative for taxpayer-supported, university-based research. Science communication, often in new forms, must expand to meet all these needs. Providing a comprehensive introduction to students, professionals and scholars in this area is a unique challenge because practitioners in these fields must grasp both the principles of science and the principles of science communication while

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understanding the social contexts of each. For this reason, science journalism and science communication are often addressed only in advanced undergraduate or graduate specialty courses rather than covered exhaustively in lower-division courses. Even so, those entering the field rarely will have a comprehensive background in both science and communication studies. This circumstance underscores the importance of compiling useful reference materials. The Encyclopedia of Science and Technology Communication presents resources and strategies for science communicators, including theoretical material and background on recent controversies and key institutional actors and sources. Science communicators need to

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understand more than how to interpret scientific facts and conclusions; they need to understand basic elements of the politics, sociology, and philosophy of science, as well as relevant media and communication theory, principles of risk communication, new trends, and how to evaluate the effectiveness of science communication programmes, to mention just a few of the major challenges. This work will help to develop and enhance such understanding as it addresses these challenges and more. Topics covered include: advocacy, policy, and research organizations environmental and health communication philosophy of science media theory and science communication informal science education science journalism as a profession risk

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communication theory public understanding of science pseudo-science in the news special problems in reporting science and technology science communication ethics.

New Serial Titles 1999 A union list of serials commencing publication after Dec. 31, 1949.

Architecture and Adaptation Socrates Yiannoudes 2016-01-29
Architecture and Adaptation discusses architectural projects that use computational technology to adapt to changing conditions and human needs. Topics include kinetic and transformable structures, digitally driven building parts, interactive installations, intelligent environments, early precedents and their historical context, socio-cultural aspects of adaptive

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architecture, the history and theory of artificial life, the theory of human-computer interaction, tangible computing, and the social studies of technology. Author Socrates Yiannoudes proposes tools and frameworks for researchers to evaluate examples and tendencies in adaptive architecture.

Illustrated with more than 50 black and white images.

Evolution Science and Ethics in the Third Millennium Robert Cliquet 2018-01-10

The book aims to revitalise the interdisciplinary debate about evolutionary ethics and substantiate the idea that evolution science can provide a rational and robust framework for understanding morality. It also traces pathways for knowledge-based choices to be made about

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directions for future long-term biological evolution and cultural development in view of adaptation to the expected, probable and possible future and the ecological

sustainability of our planetary environment

The authors discuss ethical challenges associated with the major biosocial sources of human variation:

individual variation,

inter-personal

variation, inter-group

variation, and inter-

generational variation.

This book approaches the long-term challenges of the human species in a holistic way.

Researchers will find an

extensive discussion of

the key theoretical

scientific aspects of

the relationship between

evolution and morality.

Policy makers will find

information that can

help them better

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are coming and inspire them to make choices and take actions in a longer-term perspective. The general public will find food for thoughts.

Museums at the Forefront of the History and Philosophy of Geology

Gary D. Rosenberg 2018
Information on museum activities around the world.

Thought Experiments in Science, Philosophy, and the Arts Melanie

Frappier 2012-09-10 From Lucretius throwing a spear beyond the boundary of the universe to Einstein racing against a beam of light, thought experiments stand as a fascinating challenge to the necessity of data in the empirical sciences. Are these experiments, conducted uniquely in our imagination, simply rhetorical devices or communication tools or are they an essential part of scientific

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practice? This volume surveys the current state of the debate and explores new avenues of research into the epistemology of thought experiments.

Progress and Values in the Humanities Volney

Gay 2009-12-01 Money and support tend to flow in the direction of economics, science, and other academic departments that demonstrate measurable "progress." The humanities, on the other hand, offer more abstract and uncertain outcomes. A humanist's objects of study are more obscure in certain ways than pathogens and cells. Consequently, it seems as if the humanities never truly progress. Is this a fair assessment? By comparing objects of science, such as the brain, the galaxy, the amoeba, and the quark, with objects of humanistic

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such as the poem, the photograph, the belief, and the philosophical concept, Volney Gay reestablishes a fundamental distinction between science and the humanities. He frees the latter from its pursuit of material-based progress and restores its disciplines to a place of privilege and respect. Using the metaphor of magnification, Gay shows that, while we can investigate natural objects to the limits of imaging capacity, magnifying cultural objects dissolves them into noise. In other words, cultural objects can be studied only within their contexts and through the prism of metaphor and narrative. Gathering examples from literature, art, film, philosophy, religion, science, and psychoanalysis, Gay builds a new

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justification for the humanities. By revealing the unseen and making abstract ideas tangible, the arts create meaningful wholes, which itself is a form of progress.

Government Secrecy Susan Maret 2011-01-26 Divided into six sections, this title examines Government secrecy (GS) in a variety of contexts, including comparative examination of government control of information, new definitions, categories, censorship, ethics, and secrecy's relationship with freedom of information and transparency.

Natural Area Tourism David Newsome 2012-12-21 Natural Area Tourism provides a comprehensive description of tourism in natural areas allowing readers to understand the scope of, complexities arising from, and possible

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of undertaking successful tourism developments in natural areas. Furthermore, the second edition contains an overview of recent developments, such as mountain biking, adventure activities in protected areas and geotourism. There is new content and examples from the Asian region on managing the tourism industry and management effectiveness. The book also considers important new developments in monitoring, such as remote sensing and the use of GIS, as well as the use of electronic educational resources in delivering interpretation.

Attention is given to the implications of climate change, inadequate protected area security and the ever-increasing influence of the landscape matrix.

Moreover, the second

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edition includes a comprehensive review of the new literature that has emerged since the publication of the first edition more than a decade ago. Accordingly this book will remain an invaluable resource and account of natural area tourism for many years to come.

The Advancement of Science British Association for the Advancement of Science 1962 The report of the British Association for the Advancement of Science, 1939-1940.

New Research Centers 2006

Earth Under Fire Gary Braasch 2009-03-24 Presents an illustrated guide to the effects of climate change and how to lessen the effects of the dependence on fossil fuels.

Science and Technology in World History James E. McClellan III

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figures have been thoroughly updated and the work includes a comprehensive Guide to Resources, incorporating the major published literature along with a vetted list of websites and Internet resources for students and lay readers.

Understanding Student Participation and Choice in Science and Technology Education

Ellen Karoline Henriksen
2014-09-17 Drawing on data generated by the EU's Interests and Recruitment in Science (IRIS) project, this volume examines the issue of young people's participation in science, technology, engineering and mathematics education. With an especial focus on female participation, the chapters offer analysis deploying varied theoretical frameworks, including sociology, social

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psychology and gender studies. The material also includes reviews of relevant research in science education and summaries of empirical data concerning student choices in STEM disciplines in five European countries. Featuring both quantitative and qualitative analyses, the book makes a substantial contribution to the developing theoretical agenda in STEM education. It augments available empirical data and identifies strategies in policy-making that could lead to improved participation—and gender balance—in STEM disciplines. The majority of the chapter authors are IRIS project members, with additional chapters written by specially invited contributors. The book provides researchers and policy makers

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a comprehensive and authoritative exploration of the core issues in STEM educational participation.

Social Science Research Ethics for a Globalizing World

Keerty Nakray
2015-10-14 Research in the humanities and social sciences thrives on critical reflections that unfold with each research project, not only in terms of knowledge created, but in whether chosen methodologies served their purpose. Ethics forms the bulwark of any social science research methodology and it requires continuous engagement and reengagement for the greater advancement of knowledge. Each chapter in this book will draw from the empirical knowledge created through intensive fieldwork and provide an account of ethical

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questions faced by the contributors, placing them in the context of contemporary debates surrounding the theory and practice of ethics. The chapters have been thematically organized into five sections: Feminist Ethics: Cross-Cultural Reflections and Its Implications for Change; Researching Physical and Sexual Violence in Non-Academic Settings: A Need for Ethical Protocols; Human Agency, Reciprocity, Participation and Activism: Meanings for Social Science Research Ethics; Emotions, Conflict and Dangerous Fields: Issues of "Safety" and Reflective Research; and Social Science Education: Training in Ethics or "Ethical Training" and "Ethical Publicizing." This inter-disciplinary volume will interest students and researchers in academic and

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academic settings in core disciplines of Anthropology, Sociology, Law, Political Science, International Relations, Geography, or interdisciplinary degrees in Development Studies, Health Studies, Public Health Policy, Social Policy, Health Policy, Psychology, Peace and Conflict studies, and Gender Studies. The book features a foreword by His Holiness The Dalai Lama.

Teaching with Text Sets
Cappiello, Mary Ann
2017-03-01 Looking for a way to increase engagement, differentiate instruction, and incorporate more informational text and student writing into your curriculum?

Teaching with Text Sets is your answer! This must-have resource walks you through the steps to create and use multi-genre, multimodal text

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sets for content-area and language arts study. It provides detailed information to support you as you choose topics, locate and evaluate texts, organize texts for instruction, and assess student learning. This guide is an excellent resource to help you meet the College and Career Readiness and other state standards.

Catastrophe and Regeneration in Indonesia's Peatlands

Kosuke Mizuno 2016-02-26

The serious degradation of the vast peatlands of Indonesia since the 1990s is the proximate cause of the haze that endangers public health in Indonesian Sumatra and Borneo, and also in neighbouring Singapore, Malaysia and Thailand. Moreover peatlands that have been drained and cleared for plantations are a major contributor to greenhouse

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emissions. This new book explains the degradation of peat soils and outlines a potential course of action to deal with the catastrophe looming over the region. Concerted action will be required to reduce peatland fires, and a successful policy needs to enhance social welfare and economic survival, support natural conservation and provide a return on investment if there is to be a sustainable society in the peatlands. This book argues that regeneration is possible through a new policy of people's forestry that includes reforestation and rewetting peat soils. The data come from a major long-term research effort—the humansphere project—that coordinates work done by researchers from the physical, natural and human or social sciences.

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Cosmology Without God?

David Alcalde 2019-06-26

Is God a superfluous hypothesis for modern cosmology? According to the normal understanding of modern science, the answer should be affirmative because modern science is supposed to be free of metaphysical and theological presuppositions. However, despite its self-proclaimed neutrality regarding metaphysics and theology, modern science is full of metaphysical and theological presuppositions. These can be summarized as a mechanistic understanding of nature, a reduction of God to an external agent in competition with natural processes, and creation to a worldly mechanism. These presuppositions are deficient and untenable, and they remain unconscious.

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the most part in the dialogue between science and theology, making it intellectually impossible because of the reduced notions of God, nature, and creation assumed. Using the coherent and unreduced image of God and nature provided by the Christian doctrine of creation ex nihilo, Fr. David Alcalde intends to uncover and criticize the incoherent theological assumptions inherent in a concrete branch of modern science, which is modern cosmology. The author points out the presence of these inadequate theological presuppositions in both the theologians who use modern cosmology to offer scientific proof for the existence of God and the atheistic cosmologists who use their science to reject the idea of God.

Thought Experiments in
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Philosophy, Science, and the Arts

Mélanie Frappier 2013 From Lucretius throwing a spear beyond the boundary of the universe to Einstein racing against a beam of light, thought experiments stand as a fascinating challenge to the necessity of data in the empirical sciences. Are these experiments, conducted uniquely in our imagination, simply rhetorical devices or communication tools or are they an essential part of scientific practice? This volume surveys the current state of the debate and explores new avenues of research into the epistemology of thought experiments.

Reptile Biodiversity Roy W. McDiarmid 2012-01-10
“Authoritative and comprehensive—provides an up-to-date description of the tool box of methods for

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inventorying and monitoring the diverse spectrum of reptiles. All biodiversity scientists will want to have it during project planning and as study progresses. A must for field biologists, conservation planners, and biodiversity managers.”—Jay M. Savage, San Diego State University “Kudos to the editors and contributors to this book. From the perspective of a non-ecologist such as myself, who only occasionally needs to intensively sample a particular site or habitat, the quality and clarity of this book has been well worth the wait.”—Jack W. Sites, Jr.

Technological Innovation in Legacy Sectors

William Bonvillian 2015
Resistance by vested interests to disruptive technological innovation limits growth,

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sustainability and the creation of quality jobs in more than two thirds of the US economy. This book uses a new, unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major legacy sectors: energy, air and auto transport, the electric grid, construction, health care delivery and higher education.

Advances in Condensed-Matter and Materials

Jagannathan Thirumalai 2020-05-06

This book, *Condensed Matter and Material Physics*, incorporates the work of multiple authors to enhance the theoretical as well as experimental knowledge of materials. The investigation of crystalline solids is a growing need in the electronics industry.

Micro and nano

transistors [Download from](#)

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in-depth understanding of semiconductors of different groups. Amorphous materials, on the other hand, as non-equilibrium materials are widely applied in sensors and other medical and industrial applications. Superconducting magnets, composite materials, lasers, and many more applications are integral parts of our daily lives. Superfluids, liquid crystals, and polymers are undergoing active research throughout the world. Hence profound information on the nature and application of various materials is in demand. This book bestows on the reader a deep knowledge of physics behind the concepts, perspectives, characteristic properties, and prospects. The book was constructed using 10 contributions from

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experts in diversified fields of condensed matter and material physics and its technology from over 15 research institutes across the globe.

Myth Busting Physics

Roger I. Parker II

2020-11-09 When it comes to science, the evidence should rule the day.

Roger I. Parker II puts myths revolving around physics to the test in the third edition of Myth Busting Physics.

Get answers to questions such as: Is time a fourth dimension? Can quantum fluctuations in a vacuum exist? Do photons have mass? Is there anything outside the observable universe? Can anything be colder than absolute zero?

Parker also examines why some physicists believe they can get something from nothing and how the Pauli Exclusion

Principle provides a way to either prevent the

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travel or to make it very difficult. Other topics include the Casimir Effect, the large-scale structure of our universe, the relationship between thermal radiation (light) and the warping of space (gravity), why temperature fluctuations and not mass determine the fate of the universe, and our concept of the universe. Join the author as he takes a closer look at the universe to show what is true—and what we've gotten all wrong. Gamblers in Physics Wim Vegt 2020-11-01

According to Maxwell's equations Electromagnetic Waves can only propagate along straight lines and it is impossible that Light (Electromagnetic Waves) could confine with the surface of a sphere or an ellipse. For that reason, these material waves in Schrödinger's

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wave equation could only be of a different origin than Electromagnetic Waves. Niels Bohr introduced the concept of "Probability Waves" as the origin of the material waves in Schrödinger's wave equation. And defined the New Concept that the electron was still a particle but the physical presence of the electron in the Atom was equally divided by a spherical probability function. In the New Theory it will be demonstrated that because of a mistake in the Maxwell Equations, in 1927 Confined Electromagnetic waves could not be considered to be the material waves expressed in Schrödinger's wave equation. The New Theory presents a new equation describing electromagnetic field configurations which are also solutions of the

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Schrodinger's wave equation and the relativistic quantum mechanical Dirac Equation and carry mass, electric charge and magnetic spin at discrete values.

Engineering and Enterprise Rao

Bhamidimarri 2016-02-24

This book presents contributions from researchers, practitioners and professional institutions that published papers in the Proceedings of the Educating Enterprising Engineers and Scientists conference, held in London, UK on 17th June 2015. The topics considered range from educating engineers to giving a business edge and embedding entrepreneurship to achieve integrated education and curriculum innovation. Making an important contribution to the development and

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delivery of engineering education now and further into the future, this collection of papers shares knowledge and good practice in key ways to educate enterprising engineers and scientists looking to address complex global issues such as health & well-being, water, energy and food. Seeking ways to redefine and embrace sustainable development, this work puts forward the case for innovative science and engineering education to meet the demand for talent and leadership.

Insight into Theoretical and Applied Informatics

Andrzej Yatsko

2015-01-01

The book is addressed to young people interested in computer technologies and computer science. The objective of this book is to provide the reader with all the necessary elements to

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get him or her started in the modern field of informatics and to allow him or her to become aware of the relationship between key areas of computer science. The book is addressed not only to future software developers, but also to all who are interested in computing in a widely understood sense. The authors also expect that some computer professionals will want to review this book to lift themselves above the daily grind and to embrace the excellence of the whole field of computer science. Unlike existing books, this one bypasses issues concerning the construction of computers and focuses only on information processing. Recognizing the importance of the human factor in information processing, the authors intend to

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present the theoretical foundations of computer science, software development rules, and some business aspects of informatics in non-technocratic, humanistic terms.

Science Education at the Nexus of Theory and Practice 2008-01-01

This book is a compilation of papers from the inaugural International Science Education Conference held at the National Institute of Education (Singapore). The title, *Science Education at the Nexus of Theory and Practice*, reflects a pressing yet ongoing concern worldwide to integrate theory and practice in science education and the reader will find something of interest to both science education practitioners and researchers.

Getting the Climate Science Facts Right

Medani P. Bhandari
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2022-09-01 Getting the Climate Science Facts Right - discusses climate change science with reference to the Intergovernmental Panel on Climate Change (IPCC). Addressing climate change is the most important public priority of the 21st Century. Unlike many issues, however, this issue is being driven by both science and its interface with politics. The main institution for bridging this division between science and international politics is the IPCC. As such it is the main source of the facts from which climate change policy is developed. This book describes the ways in which the IPCC arrives at these facts and so can be sure they are complete and evidence based. Seldom in history has science had such a direct relationship with politics. The

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negotiation of an international policy regime requires, at its outset, an agreement on the facts. In this case, the facts are scientific, complex and contentious. Governments have recognized this and have, by using the IPCC, set up institutional machinery to provide facts from a source and in a manner that they can accept. The way in which the IPCC functions is unique in that it melds the way in which science achieves consensus with the way governments do at the international level. Starting with a process to examine, review and debate scientific findings leading to a consensus about scientific fact, usually expressed as probabilities that the findings will hold over time, the IPCC then concludes by using the kind of consensus

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development mechanism that the United Nations typically uses to achieve agreements leading to the formation of policy regimes. The book examines the structure of the IPCC, its composition and its procedures in order to achieve an understanding of its role and future.

International Handbook of Research in History, Philosophy and Science Teaching

Michael R. Matthews 2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical, curricular and pedagogical issues in the teaching of science and mathematics. It is contributed to by 130 researchers from 30 countries; it provides a logically structured, fully referenced guide to the ways in which science and mathematics

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education is, informed by the history and philosophy of these disciplines, as well as by the philosophy of education more generally. The first handbook to cover the field, it lays down a much-needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject. The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education, attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects. There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science; this handbook is uniquely positioned as

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for the discussion. The handbook features sections on pedagogical, theoretical, national, and biographical research, setting the literature of each tradition in its historical context. It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching, and that lessons can be learnt from these engagements for the resolution of current theoretical, curricular and pedagogical questions that face teachers and administrators. Science educators will be grateful for this unique, encyclopaedic handbook, Gerald Holton, Physics Department, Harvard University This handbook gathers the fruits of over thirty

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years' research by a growing international and cosmopolitan community Fabio Bevilacqua, Physics Department, University of Pavia

Psychology as a Dialogical Science Maria Cláudia Santos Lopes-de-Oliveira 2020-05-14 This book intends to translate into theoretical, methodological and practical language the principles of dialogical psychology. Throughout the 19th and 20th centuries, theoretical models in psychology have approached human mind and behavior from a monological point of view, a generalizing perspective which ignored the core role of social transactions in the construction of the person and sought to explain psychological functioning only looking inside individuals' minds and brains

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mechanist sets of reinforcement contingencies. However, for the last 40 years, critical perspectives within the fields of psychological and sociological theoretical thinking have produced an important epistemological shift towards a new dialogical paradigm within the behavioral and social sciences. The contributions in this volume intend to present both the theoretical framework and possible applications of dialogical psychology in different fields of research and practice, such as: Developmental psychology School and educational psychology Social and personality psychology Education Social work Anthropology Art Psychology as a Dialogical Science - Self and Culture Mutual Development will be an invaluable resource to

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both researchers and practitioners working in the different areas involved in the study and promotion of healthy human development by providing an alternative scientific framework to help overcome the traditional, reductionist, monological explanations of psychological phenomena.

Launching Science

National Research Council 2009-02-12 In January 2004 NASA was given a new policy direction known as the Vision for Space Exploration. That plan, now renamed the United States Space Exploration Policy, called for sending human and robotic missions to the Moon, Mars, and beyond. In 2005 NASA outlined how to conduct the first steps in implementing this policy and began the development of a new human-carrying

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spacecraft known as Orion, the lunar lander known as Altair, and the launch vehicles Ares I and Ares V.

Collectively, these are called the Constellation System. In November 2007 NASA asked the National Research Council (NRC) to evaluate the potential for new science opportunities enabled by the Constellation System of rockets and spacecraft. The NRC committee evaluated a total of 17 mission concepts for future space science missions. Of those, the committee determined that 12 would benefit from the Constellation System and five would not. This book presents the committee's findings and recommendations, including cost estimates, a review of the technical feasibility of each mission, and identification of the

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missions most deserving of future study.

A Critical Realist Perspective of Education

Brad Shipway 2010-07-20
Explores the capability of critical realism to throw light on educational theory. This book investigates the convergence and divergence between two forms of critical realism. It outlines the key characteristics that are necessary for a theological position to claim the term 'critical realist'.

Chemistry

Entrepreneurship Javier García-Martínez
2022-03-14 A

groundbreaking guide to the commercialization of scientific breakthroughs in chemistry, from successful entrepreneurs
Chemistry

Entrepreneurship is a step-by-step guide that is specifically devoted to understanding what it takes to start

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a new company in the chemistry sector. Comprehensive in scope, the book covers the various aspects of the creation of a new chemical enterprise including: the protection of the invention, the business plan, the transfer from the research center or university, the financing, the legal setup, the launching of the company and its growth and exit strategies. This hands-on book contains the information needed to help to determine if you have what it takes to be a chemistry entrepreneur, explains how to take an ideas out of the lab and into the real world, reveals how to develop your burgeoning business, and shows how to sustain and grow your business. This much-needed resource also includes interviews with founding scientists

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who created their own successful chemical companies. This important book: Provides the practical information on how to start a company based on a scientific breakthrough Offers information on the mindset it takes to become, and remain, successful in the marketplace Presents case studies from world-renowned and highly experienced professionals who have successfully started a company Written for chemists in industry, chemists, materials scientists, chemical engineers, Chemistry Entrepreneurship is a guide for becoming a founder of a successful chemical company.

Science, Technology and Innovation Policies for Inclusive Growth in Africa Achim Gutowski
2020-04 The volume

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and policy issues. How to make Science, Technology and Innovation (STI) Policies relevant for inclusive growth strategies in Africa so that socio-economic transformation strategies will take off. The first part discusses the issues of human skills development

as part of STI policies, based on visions, strategic plans and country cases (for Cameroon, Nigeria and Mauritania). The second part looks at STI Policies for Economic Transformation, focussing on country case studies (for Egypt and Tunisia). A third part presents book reviews and book notes.