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Responsible Science Oxford University Press

Responsible Science is a comprehensive review of factors that influence the integrity of the research process. Volume I examines reports on the incidence of misconduct in science and reviews institutional and governmental efforts to handle cases of misconduct. The result of a two-year study by a panel of experts convened by the National Academy of Sciences, this book critically analyzes the impact of today's research environment on the traditional checks and balances that foster integrity in science. Responsible Science is a provocative examination of the role of educational efforts; research guidelines; and the contributions of individual scientists, mentors, and institutional officials in encouraging responsible research practices.

Principles of Physics Springer

An objective, comprehensive, and accessible examination of today's most crucial problem: preserving the environment in the face of society's insatiable demand for energy. In *Energy at the Crossroads*, Vaclav Smil considers the twenty-first century's crucial question: how to reconcile the modern world's unceasing demand for energy with the absolute necessity to preserve the integrity of the biosphere. With this book he offers a comprehensive, accessible guide to today's complex energy issues—how to think clearly and logically about what is possible and what is desirable in our energy future. After a century of unprecedented production growth, technical innovation, and expanded consumption, the world faces a number of critical energy challenges arising from unequal resource distribution, changing demand patterns, and environmental limitations. The fundamental message of *Energy at the Crossroads* is that our dependence on fossil

fuels must be reduced not because of any imminent resource shortages but because the widespread burning of oil, coal, and natural gas damages the biosphere and presents increasing economic and security problems as the world relies on more expensive supplies and Middle Eastern crude oil. Smil begins with an overview of the twentieth century's long-term trends and achievements in energy production. He then discusses energy prices, the real cost of energy, and "energy linkages"—the effect energy issues have on the economy, on quality of life, on the environment, and in wartime. He discusses the pitfalls of forecasting, giving many examples of failed predictions and showing that unexpected events can disprove complex models. And he examines the pros and cons not only of fossil fuels but also of alternative fuels such as hydroenergy, biomass energy, wind power, and solar power. Finally, he considers the future, focusing on what really matters, what works, what is realistic, and which outcomes are most desirable.

The West African Examinations Council: the First 21 Years (1952-1973) CRC Press

"This book is about Technology Integration in Chemistry Education and Research (TICER) " --

Energy Weidenfeld & Nicolson

This volume deals with the propagation of three-dimensional shock waves and their reflection from curved walls. It is divided into two parts. The first part presents a ray method. This is based on the expansion of fluid properties in power series at an arbitrary point on the shock front. Continuous fractions are used. Results for shock propagation in non-uniform fluids are given. The second part discusses the shock reflection from a concave body. The important shock-focusing problem is included. The work is supported by both numerical and experimental results. Many interesting features, such as formation of a jet, vortices and the appearance of disturbances on the shock front, are discussed. Besides shock waves in gases, the distinctive

features of shock propagation through a weakly ionized plasma are considered.

A Treatise on Electricity and Magnetism Michigan State University Press

This title is part of UC Press's Voices Revived program, which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1934.

The Mirror University Press, Nigeria

The call for science curriculum reform has been made over and over again for much of the twentieth century. Arguments have been made that the content of the curriculum is not appropriate for meeting the individual and social needs of people living in the modern world; that the curriculum has become overstuffed with topics and does not serve students especially well; and above all, that the curriculum does not generate the student learning it is expected to produce. The latest volume in a continuing series of publications from the AAAS designed to reform science education, *Designs for Science Literacy* presupposes that curriculum reform must be considerably more extensive and fundamental than the tinkering with individual courses and subjects that has been going on for decades. *Designs* deals with the critical issues involved in assembling sound instructional materials into a new, coherent K-12 whole. The book pays special attention to the need to link science-oriented studies to the arts and humanities, and also proposes how to align the curriculum with an established set of learning goals while preserving the American tradition of local responsibility for the curriculum itself. If fundamental curriculum reform is ever to occur, a new process for creating alternatives will have to be developed. *Designs for Science Literacy* provides the groundwork for such a process.

Physics for WAEC. CreateSpace

This research handbook provides meaningful coverage on current trends in the dynamic education systems of Africa. It presents the

main findings on current issues in the education systems from different African countries. Specifically, it examines education policies and what can be done differently by African nations to strengthen these policies. The objective is to highlight African nations' capacity to address issues of social justice to generate ideas that can help translate the increasing strengths of the continent into achieving sustainable development.

A Wizard's Wanderings from China to Peru Simon & Schuster

In this follow-up volume to the critically acclaimed *The Constitutional State*, N. W. Barber explores how the principles of constitutionalism structure and influence successful states. Constitutionalism is not exclusively a mechanism to limit state powers. An attractive and satisfying account of constitutionalism, and, by derivation, of the state, can only be reached if the principles of constitutionalism are seen as interlocking parts of a broader doctrine. This holistic study of the relationship between the constitutional state and its central principles - sovereignty; the separation of powers; the rule of law; subsidiarity; democracy; and civil society - casts light on long-standing debates over the meaning and implications of constitutionalism. The book provides a concise introduction to constitutionalism and a detailed account of the nature and implications of each of the principles in question. It concludes with an examination of the importance of constitutional principles to the work of judges, legislators, and others involved in the operation and creation of the constitution. The book is essential reading for those seeking a definitive account of constitutionalism and its benefits.

Designs for Science Literacy Bernan Press(PA)

Science Education: A Global Perspective is 'global' both in content and authorship. Its 17 chapters by an assemblage of seasoned and knowledgeable science educators from many parts of the world seek to bring to the fore current developments in science education and their implications. The book thus covers a wide range of topics in science education from various national and international perspectives. These include the nature of science, science and religion, evolution, curriculum and pedagogy, context-based teaching and learning, science and national development, socially-responsible science education, equitable access for women and girls in science and technology education, and the benefits of science education research. It ends on an optimistic note by looking at science education in 50 years' time with a recommendation, among others, for stakeholders to take the responsibility of preparing children towards a blossoming science education sector in an anticipated future world. This book is

suitable for use by discerning researchers, teachers, undergraduate and postgraduate students in science education, and policy makers at all levels of education. Other educationalists and personnel in science and technology vocations will also find it interesting and useful as the reader-motivated approach has guided the presentation of ideas. *Science Education: A Global Perspective* is a rich compendium of the components of science education in context, practice, and delivery. Dr Bulent Cavas, Professor of Science Education, Dokuz Eylul University, Buca-Izmir, Turkey/President-Elect, International Council of Associations for Science Education (ICASE) This book will be of immense relevance for current and future global strides in training and research in science education. Surinder K. Ghai, Chairman, Sterling Publishers Pvt. Ltd., New Delhi, India This book provides a refreshing insight into the current status and future direction of science education. It will be very useful to researchers, those pursuing undergraduate and post-graduate courses in science education, and all other personnel involved in the policy and practice of science education. Dr. Bennoit Sossou, Director/Country Representative, UNESCO Regional Office in Abuja, Nigeria

Sir Isaac Newton's Mathematical Principles of Natural Philosophy and His System of the World Cavendish Square Publishing, LLC

A comprehensive and unified introduction to the science of energy sources, uses, and systems for students, scientists, engineers, and professionals.

Propagation and Reflection of Shock Waves Springer

Fifteen years ago, Mama said, starting her story, I came to Lagos from Ghana. I came to Nigeria because I was considered an alien in that country. The government of Ghana passed a law asking all aliens without resident permits to regularise their stay in the country'. This story of migration, identities and lives undermined by cynical and xenophobic politics pushed to its logical and terrible conclusion pertains to the Ghanaian orders of 'alien compliance' issued in 1970-1971, which determined to force all non-ethnic Ghanaians, so called illegal immigrants, to return to their - so stipulated - 'home'. The novel thus touches on concerns of deeper relevance to the politics of race and migration of the twenty first century.

Fundamentals of Radio Astronomy National Academies

This is an African retelling of Euripides: an unnervingly topical story of a people and a beloved city destroyed by the brutality of war. The play was first performed in Lagos in 2003 under the distinguished director Chuck Mike, and subsequently toured the UK.

Refocusing Research in Science, Technology, and Mathematics (STM) Education Univ of California Press

As evidenced by five Nobel Prizes in physics, radio astronomy in

its 80-year history has contributed greatly to our understanding of the universe. Yet for too long, there has been no suitable textbook on radio astronomy for undergraduate students. *Fundamentals of Radio Astronomy: Observational Methods* is the first undergraduate-level textbook exclus

Physics Harper Collins

Principles of Physics is a well-established popular textbook which has been completely revised and updated.

Studies in Mathematics Education Longman International Education Division (a Pearson Education Company)

Examines a new theory of reality, based on holography, that explains the paranormal abilities of the mind, the latest frontiers of physics, and the unsolved riddles of the brain and body.

Expo '77 Graphic Communications Group

The GED® test is your chance to get the job or career you want.

The GED® test credential is the only high school equivalency credential recognized in all 50 states. This is your ticket to a great job and life. This is a comprehensive test with about 150+ power packed questions that covers the entire spectrum of Math topics covered at the test. Each of these questions is answered in the book and we have provided explanation of the answers as well which will help students This is a great practice book. Don't take the test without reviewing the questions in this book!

Higher Education Opportunity Act MIT Press

Calculations in Chemistry is intended to help students overcome the challenges associated with solving the numerical problems in chemistry. Chemistry is a numerical science which cannot be fully appreciated without adequate numerical skills. In fact, the lack of problem-solving skills has been recognised as one of the major reasons for the poor performance recorded in the subject over the years. Budgetary and size constraints often translate to lack of space for solving enough sample problems in core textbooks and most problems are presented in a difficult manner that douses enthusiasm for learning.

GED Math Practice Test Cambridge University Press

Refining the most widely adopted and enduring physics text available, *University Physics with Modern Physics*, Twelfth Edition continues an unmatched history of innovation and careful execution that was established by the best selling Eleventh Edition. Assimilating the best ideas from education research, this new edition provides enhanced problem-solving instruction, pioneering visual and conceptual pedagogy, the first systematically enhanced problems, and the most pedagogically proven and widely used homework and tutorial system available. *Mechanics, Waves/Acoustics, Thermodynamics, Electromagnetism, Optics, Modern Physics*. For all readers interested in university physics.

Faceless Pearson Education

Sir Isaac Newton formulated the laws of universal gravitation and the three laws of motion. These explain how forces act on matter, and on how matter responds to forces. This leads to an understanding of how things move.

Senior Secondary Physics Oxford University Press

A “meticulously researched” (The New York Times Book Review) examination of energy transitions over time and an exploration of the current challenges presented by global warming, a surging world population, and renewable energy—from Pulitzer Prize- and National Book Award-winning author Richard Rhodes. People have lived and died, businesses have prospered and failed, and nations have risen to world power and declined, all over energy challenges. Through an unforgettable cast of characters, Pulitzer Prize-winning author Richard Rhodes explains how wood gave way to coal and coal made room for oil, as we now turn to natural gas, nuclear power, and renewable energy. “Entertaining and informative...a powerful look at the importance of science” (NPR.org), Rhodes looks back on five centuries of progress, through such influential figures as Queen Elizabeth I, King James I, Benjamin Franklin, Herman Melville, John D. Rockefeller, and Henry Ford. In his “magisterial history...a tour de force of popular science” (Kirkus Reviews, starred review), Rhodes shows how breakthroughs in energy production occurred; from animal and waterpower to the steam engine, from internal-combustion to the electric motor. He looks at the current energy landscape, with a focus on how wind energy is competing for dominance with cast supplies of coal and natural gas. He also addresses the specter of global warming, and a population hurtling towards ten billion by 2100. Human beings have confronted the problem of how to draw energy from raw material since the beginning of time. Each invention, each discovery, each adaptation brought further challenges, and through such transformations, we arrived at where we are today. “A beautifully written, often inspiring saga of ingenuity and progress...Energy brings facts, context, and clarity to a key, often contentious subject” (Booklist, starred review).