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"Inventions and Patents" is the first of WIPO's Learn from the past, create the future series of publications aimed at young students. This series was launched in recognition of the importance of children and young adults as the creators of our future.

"This book provides relevant theoretical frameworks and empirical research findings in the area hydroinformatics to assist professionals to improve their understanding of the development and use of decision support tools to support decision making and integrated water management at different organizational levels and domains"--Provided by publisher.

Global warming and human-induced climate change are perhaps the most important scientific issues of our time. These issues continue to be debated in the scientific community and in the media without true consensus about the role of greenhouse gas emissions as a contributing factor. Evidence-Based Climate Science: Data opposing CO2 emissions as the primary source of global warming objectively gathers and analyzes scientific data concerning patterns of past climate changes, influences of changes in ocean temperatures, the effect of solar variation on global climate, and the effect of CO2 on global climate to clearly and objectively present counter-global-warming evidence not embraced by proponents of CO2. An unbiased, evidence-based analysis of the scientific data concerning climate change and global warming Authored by 8 of the world's leading climate scientists, each with more than 25 years of experience in the field Extensive analysis of the physics of CO2 as a greenhouse gas and its role in global warming Comprehensive citations, references, and bibliography Adaptation strategies are presented as alternative reactions to greenhouse gas emission reductions

As the internet and new online technologies are becoming embedded in everyday life, there are increasing questions about their social implications and consequences. This text addresses these risks in relation to children.

For Introduction to Soils or Fundamentals of Soil Science courses. Also for courses in Soil Fertility, Forest Soils, Soil Management, Land Resources, Earth Science, and Soil Geography. Developed for Introduction to Soils or Soil Science courses, The Nature and Properties of Soils, 14e can be used in courses such as Soil Fertility, Land Resources, Earth Science and Soil Geography. Now in its 14th edition, this text is designed to help make students study of soils a fascinating and intellectually satisfying experience. Written for both majors and non-majors, this text highlights the many interactions between the soil and other components of forest, range, agricultural, wetland and constructed ecosystems.

The uptake of ecosystem-based approaches for disaster risk reduction (DRR) is slow, however, despite some success stories. There are multiple reasons for this reluctance: ecosystem management is rarely considered as part of the portfolio of DRR solutions because the environmental and disaster management communities typically work independently from each other; its contribution to DRR is highly undervalued compared to engineered solutions and therefore not given appropriate budget allocations; and there are poor interactions between policymakers and researchers, leading to unclear and sometimes contradictory scientific information on the role of ecosystems for DRR. The aim of this book is to provide an overview of knowledge and practice in this multidisciplinary field of ecosystems management and DRR. The contributors, professionals from the science and disaster management communities around the world, represent state-of-the-art knowledge, practices, and perspectives on the topic.

This book provides a comprehensive introduction to the field of geochemistry. The book first lays out the 'geochemical toolbox': the basic principles and techniques of modern geochemistry, beginning with a review of thermodynamics and kinetics as they apply to the Earth and its environs. These basic concepts are then applied to understanding processes in aqueous systems and the behavior of trace elements in magmatic systems. Subsequent chapters introduce radiogenic and stable isotope geochemistry and illustrate their application to such diverse topics as determining geologic time, ancient climates, and the diets of prehistoric peoples. The focus then broadens to the formation of the solar system, the Earth, and the elements themselves. Then the composition of the Earth itself becomes the topic, examining the composition of the core, the mantle, and the crust and exploring how this structure originated. A final chapter covers organic chemistry, in-

cluding the origin of fossil fuels and the carbon cycle's role in controlling Earth's climate, both in the geologic past and the rapidly changing present. Geochemistry is essential reading for all earth science students, as well as for researchers and applied scientists who require an introduction to the essential theory of geochemistry, and a survey of its applications in the earth and environmental sciences. Additional resources can be found at: www.wiley.com/go/white/geochemistry

Highly effective thinking is an art that engineers and scientists can be taught to develop. By presenting actual experiences and analyzing them as they are described, the author conveys the developmental thought processes employed and shows a style of thinking that leads to successful results is something that can be learned. Along with spectacular successes, the author also conveys how failures contributed to shaping the thought processes. Provides the reader with a style of thinking that will enhance a person's ability to function as a problem-solver of complex technical issues. Consists of a collection of stories about the author's participation in significant discoveries, relating how those discoveries came about and, most importantly, provides analysis about the thought processes and reasoning that took place as the author and his associates progressed through engineering problems.

When Betty Friedan produced *The Feminine Mystique* in 1963, she could not have realized how the discovery and debate of her contemporaries' general malaise would shake up society. Victims of a false belief system, these women were following strict social convention by loyally conforming to the pretty image of the magazines, and found themselves forced to seek meaning in their lives only through a family and a home. Friedan's controversial book about these women - and every woman - would ultimately set Second Wave feminism in motion and begin the battle for equality. This groundbreaking and life-changing work remains just as powerful, important and true as it was forty-five years ago, and is essential reading both as a historical document and as a study of women living in a man's world. 'One of the most influential nonfiction books of the twentieth century.' *New York Times* 'Feminism began with the work of a single person: Friedan.' Nicholas Lemann With a new Introduction by Lionel Shriver

The Complete Guide to IELTS deconstructs the IELTS test and works systematically through each paper, covering all task types, text types and skills. No stone is left unturned. The material can be used in class or by students working on the own.

It's 1940, and Britain is at war. Young Chas McGill has the second-best collection of war souvenirs in town, but desperately wants it to be the best. Amidst the bombs and air raids, Chas and his friends plan their own war effort in their newly built bunker. Friendships are forged and loyalties tested, in the adventure of a lifetime. Robert Westall's "The Machine Gunners" has been read, studied - and loved - by successive generations of younger readers. It won the Carnegie Medal and was voted one of the most important children's novels of the past seventy years. This thrilling stage adaptation comes from the award-winning playwright Ali Taylor, and premiered at the Polka Theatre, London. It provides rich opportunities for discussion in the classroom, and for staging by schools, youth theatres and amateur companies.

How do you begin to understand the concept of nothing? Where does it begin and where does it end? From the zeros of the mathematician to the void of the philosophers, from Shakespeare to the empty set, from the ether to the quantum vacuum, from being and nothingness to creatio ex nihilo, there is much ado about nothing at the heart of things. Recent exciting discoveries in astronomy are shown to shed new light on the nature of the vacuum and its dramatic effect upon the explanation of the Universe. This remarkable book ranges over every nook and cranny of nothingness to reveal how the human mind has had to make something of nothing in every field of human enquiry.

The term big data refers to extremely large sets of data that are analyzed to reveal insights, such as patterns, trends, and associations. The algorithms that analyze this data to provide these insights must extract value from a wide range of data sources, including business data and live, streaming, social media data. However, the real value of these insights comes from their timeliness. Rapid delivery of insights enables anyone (not only data scientists) to make effective decisions, applying deep intelligence to every enterprise application. Apache Spark is an integrated analytics framework and runtime to accelerate and simplify algorithm development, deployment, and realization of business insight from ana-

lytics. Apache Spark on IBM® z/OS® puts the open source engine, augmented with unique differentiated features, built specifically for data science, where big data resides. This IBM Redbooks® publication describes the installation and configuration of IBM z/OS Platform for Apache Spark for field teams and clients. Additionally, it includes examples of business analytics scenarios.

With a crackling wit and a deep humanity, (Ken Robinson) urges us to ignore the naysayers, bypass the crowd and find the place where our talents and desires intersect

Applies traditional epidemiologic methods for determining disease etiology to the real-life applications of public health and health services research. This text contains a chapter on the development and use of systematic reviews and one on epidemiology and the law.

This book introduces the Statistical Drake Equation where, from a simple product of seven positive numbers, the Drake Equation is turned into the product of seven positive random variables. The mathematical consequences of this transformation are demonstrated and it is proven that the new random variable N for the number of communicating civilizations in the Galaxy must follow the lognormal probability distribution when the number of factors in the Drake equation is allowed to increase at will. Mathematical SETI also studies the proposed FOCAL (Fast Outgoing Cyclopean Astronomical Lens) space mission to the nearest Sun Focal Sphere at 550 AU and describes its consequences for future interstellar precursor missions and truly interstellar missions. In addition the author shows how SETI signal processing may be dramatically improved by use of the Karhunen-Loève Transform (KLT) rather than Fast Fourier Transform (FFT). Finally, he describes the efforts made to persuade the United Nations to make the central part of the Moon Far Side a UN-protected zone, in order to preserve the unique radio-noise-free environment for future scientific use.

This edition of *Science and Creationism* summarizes key aspects of several of the most important lines of evidence supporting evolution. It describes some of the positions taken by advocates of creation science and presents an analysis of these claims. This document lays out for a broader audience the case against presenting religious concepts in science classes. The document covers the origin of the universe, Earth, and life; evidence supporting biological evolution; and human evolution. (Contains 31 references.) (CCM)

Most of our communities are fragmented and at odds within themselves. Businesses, social services, education, and health care each live within their own worlds. The same is true of individual citizens, who long for connection but end up marginalized, their gifts overlooked, their potential contributions lost. What keeps this from changing is that we are trapped in an old and tired conversation about who we are. If this narrative does not shift, we will never truly create a common future and work toward it together. What Peter Block provides in this inspiring new book is an exploration of the exact way community can emerge from fragmentation. How is community built? How does the transformation occur? What fundamental shifts are involved? What can individuals and formal leaders do to create a place they want to inhabit? We know what healthy communities look like—there are many success stories out there. The challenge is how to create one in our own place. Block helps us see how we can change the existing context of community from one of deficiencies, interests, and entitlement to one of possibility, generosity, and gifts. Questions are more important than answers in this effort, which means leadership is not a matter of style or vision but is about getting the right people together in the right way: convening is a more critical skill than commanding. As he explores the nature of community and the dynamics of transformation, Block outlines six kinds of conversation that will create communal accountability and commitment and describes how we can design physical spaces and structures that will themselves foster a sense of belonging. In *Community*, Peter Block explores a way of thinking about our places that creates an opening for authentic communities to exist and details what each of us can do to make that happen.

The State of the World's Land and Water Resources for Food and Agriculture is FAO's first flagship publication on the global status of land and water resources. It is an 'advocacy' report, to be published every three to five years, and targeted at senior level decision makers in agriculture as well as in other sectors. SOLAW is aimed at sensitizing its target audience on the status of land resources at global and regional levels and FAO's viewpoint on ap-

appropriate recommendations for policy formulation. SOLAW focuses on these key dimensions of analysis: (i) quantity, quality of land and water resources, (ii) the rate of use and sustainable management of these resources in the context of relevant socio-economic driving factors and concerns, including food security and poverty, and climate change. This is the first time that a global, baseline status report on land and water resources has been made. It is based on several global spatial databases (e.g. land suitability for agriculture, land use and management, land and water degradation and depletion) for which FAO is the world-recognized data source. Topical and emerging issues on land and water are dealt with in an integrated rather than sectoral manner. The implications of the status and trends are used to advocate remedial interventions which are tailored to major farming systems within different geographic regions.

Addressing a field that has been dominated by astronomers, physicists, engineers, and computer scientists, the contributors to this collection raise questions that may have been overlooked by physical scientists about the ease of establishing meaningful communication with an extraterrestrial intelligence. These scholars are grappling with some of the enormous challenges that will face humanity if an information-rich signal emanating from another world is detected. By drawing on issues at the core of contemporary archaeology and anthropology, we can be much better prepared for contact with an extraterrestrial civilization, should that day ever come.

Stone buildings and monuments form the cultural centres of many of the world's urban areas. Frequently these areas are prone to high levels of atmospheric pollution that promote a variety of aggressive stone decay processes. Because of this, stone decay is now widely recognised as a severe threat to much of our cultural heritage. An interdisciplinary approach between geologists, environmental scientists, chemists, material scientists, civil engineers, restorers and architects aims to strengthen the knowledge base dealing with the causes, consequences, prevention and solution of stone decay problems.

Geographic Information Systems for Geoscientists: Modelling with GIS provides an introduction to the ideas and practice of GIS to students and professionals from a variety of geoscience backgrounds. The emphasis in the book is to show how spatial data from various sources (principally paper maps, digital images and tabular data from point samples) can be captured in a GIS database, manipulated, and transformed to extract particular features in the data, and combined together to produce new derived maps, that are useful for decision-making and for understanding spatial interrelationship. The book begins by defining the meaning, purpose, and functions of GIS. It then illustrates a typical GIS application. Subsequent chapters discuss methods for organizing spatial data in a GIS; data input and data visualization; transformation of spatial data from one data structure to another; and the combination, analysis, and modeling of maps in both raster and vector formats. This book is intended as both a textbook for a course on GIS, and also for those professional geoscientists who wish to understand something about the subject. Readers with a mathematical bent will get more out of the later chapters, but relatively non-numerate individuals will understand the general purpose and approach, and will be able to apply methods of map modeling to clearly-defined problems.

The founder and executive chairman of the World Economic Forum on how the impending technological revolution will change our lives We are on the brink of the Fourth Industrial Revolution.

And this one will be unlike any other in human history. Characterized by new technologies fusing the physical, digital and biological worlds, the Fourth Industrial Revolution will impact all disciplines, economies and industries - and it will do so at an unprecedented rate. World Economic Forum data predicts that by 2025 we will see: commercial use of nanomaterials 200 times stronger than steel and a million times thinner than human hair; the first transplant of a 3D-printed liver; 10% of all cars on US roads being driverless; and much more besides. In The Fourth Industrial Revolution, Schwab outlines the key technologies driving this revolution, discusses the major impacts on governments, businesses, civil society and individuals, and offers bold ideas for what can be done to shape a better future for all.

The fifth edition of the Glossary of Geology contains nearly 40,000 entries, including 3,600 new terms and nearly 13,000 entries with revised definitions from the previous edition. In addition to definitions, many entries include background information and aids to syllabication. The Glossary draws its authority from the expertise of more than 100 geoscientists in many specialties who reviewed definitions and added new terms.

This is a discount Black and white version. Some images may be unclear, please see BCCampus website for the digital version. This book was born out of a 2014 meeting of earth science educators representing most of the universities and colleges in British Columbia, and nurtured by a widely shared frustration that many students are not thriving in courses because textbooks have become too expensive for them to buy. But the real inspiration comes from a fascination for the spectacular geology of western Canada and the many decades that the author spent exploring this region along with colleagues, students, family, and friends. My goal has been to provide an accessible and comprehensive guide to the important topics of geology, richly illustrated with examples from western Canada. Although this text is intended to complement a typical first-year course in physical geology, its contents could be applied to numerous other related courses.

The Visible and the Invisible contains the unfinished manuscript and working notes of the book Merleau-Ponty was writing when he died. The text is devoted to a critical examination of Kantian, Husserlian, Bergsonian, and Sartrean method, followed by the extraordinary "The Intertwining--The Chiasm," that reveals the central pattern of Merleau-Ponty's own thought. The working notes for the book provide the reader with a truly exciting insight into the mind of the philosopher at work as he refines and develops new pivotal concepts.

The GHG Protocol Corporate Accounting and Reporting Standard helps companies and other organizations to identify, calculate, and report GHG emissions. It is designed to set the standard for accurate, complete, consistent, relevant and transparent accounting and reporting of GHG emissions.

In The Soul of Anime, Ian Condry explores the emergence of anime, Japanese animated film and television, as a global cultural phenomenon. Drawing on ethnographic research, including interviews with artists at some of Tokyo's leading animation studios—such as Madhouse, Gonzo, Aniplex, and Studio Ghibli—Condry discusses how anime's fictional characters and worlds become platforms for collaborative creativity. He argues that the global success of Japanese animation has grown out of a collective social energy that operates across industries—including those that produce film, television, manga (comic books), and toys and other licensed merchandise—and connects fans to the creators of anime. For Condry, this collective social energy is the soul of anime.

THE CHANGING EARTH, a leader in the Introductory Geology course, is the only text specifically written for the combined physical and historical geology course. The Fourth Edition's content is based on the best-selling texts PHYSICAL GEOLOGY: EXPLORING THE EARTH and HISTORICAL GEOLOGY: EVOLUTION OF EARTH AND LIFE THROUGH TIME, both written by James Monroe and Reed Wicander. Briefer than the previous edition and maintaining a consistent and clear writing style throughout, the text provides a balanced coverage of physical and historical geology with engaging, real-life examples that draw students into the material. Examples in the Fourth Edition include new two-page art spreads, new paleogeographic maps, and Geology in Unexpected Places—a favorite feature from PHYSICAL GEOLOGY: EXPLORING THE EARTH, Fifth Edition. Known for its competitive and robust ancillary package, the Fourth Edition now features GeologyNow, the first assessment-centered student tutorial technology developed for the Geology market. The seamless integration of GeologyNow with chapter concepts emphasizes the connections between the content and students' own lives, through visual 3-D animations and chapter quizzes, helping students develop a greater appreciation for geology. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Is the Search for Extra Terrestrial Intelligence a genuine scientific research programme? David Lamb evaluates claims and counter-claims, and examines recent attempts to establish contact with other intelligent life forms. He considers the benefits and drawbacks of this communication, how we should communicate and whether we actually can. He also assesses competing theories on the origin of life on Earth, discoveries of former solar planets, proposals for space colonies and the consequent technical and ethical issues.

With more than 400,000 copies now in print, The Craft of Research is the unrivaled resource for researchers at every level, from first-year undergraduates to research reporters at corporations and government offices. Seasoned researchers and educators Gregory G. Colomb and Joseph M. Williams present an updated third edition of their classic handbook, whose first and second editions were written in collaboration with the late Wayne C. Booth. The Craft of Research explains how to build an argument that motivates readers to accept a claim; how to anticipate the reservations of readers and to respond to them appropriately; and how to create introductions and conclusions that answer that most demanding question, "So what?" The third edition includes an expanded discussion of the essential early stages of a research task: planning and drafting a paper. The authors have revised and fully updated their section on electronic research, emphasizing the need to distinguish between trustworthy sources (such as those found in libraries) and less reliable sources found with a quick Web search. A chapter on warrants has also been thoroughly reviewed to make this difficult subject easier for researchers. Throughout, the authors have preserved the amiable tone, the reliable voice, and the sense of directness that have made this book indispensable for anyone undertaking a research project.

Appearance And Reality - The Existence Of Matter - The Nature Of Matter - Idealism - Knowledge By Acquaintance And Knowledge By Description - On Induction - On Our Knowledge Of General Principles - How A Priori Knowledge Is Possible - The World Of Universals - On Our Knowledge Of Universals - On Intuitive Knowledge - Truth And Falsehood - Knowledge, Error, And Probable Opinion - The Limits Of Philosophical Knowledge - The Value Of Philosophy - Bibliographical Note