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**Global Innovation Index 2020** Cornell University 2020-08-13 The Global Innovation Index 2020 provides detailed metrics about the innovation performance of 131 countries and economies around the world. Its 80 indicators explore a broad vision of innovation, including political environment, education, infrastructure and business sophistication. The 2020 edition sheds light on the state of innovation financing by investigating the evolution of financing mechanisms for entrepreneurs and other innovators, and by pointing to progress and remaining challenges – including in the context of the economic slowdown induced by the coronavirus disease (COVID-19) crisis.

**The Effect of Long Term Thermal Exposure on Plastics and Elastomers** Laurence W. McKeen 2021-04-25 The Effect of Long Term Thermal Exposure on Plastics and Elastomers, Second Edition brings together a wide range of essential data on the effect of long-term thermal exposure on plastics and elastomers, enabling engineers to make optimal material choices and design decisions. This second edition has been thoroughly revised to include the latest data and materials. This highly valuable handbook will support engineers, product designers, R&D professionals, and scientists who are working on plastics products or parts for high temperature environments across a range of industries. This readily available data will make it easy for practitioners to learn about plastic materials and their long- term thermal exposure without having to search the general literature or depend on suppliers. This book will also be of interest to researchers and advanced students in plastics engineering, polymer processing, coatings, and materials science and engineering. Provides essential data and practical guidance for engineers and scientists working with plastics in high temperature environments Includes introductory chapters on the effect of heat aging and testing methods, providing the underpinning knowledge required to utilize the data Covers a wide range of commercial polymer classes that are updated to include the latest developments in plastics materials

**Climate Change 2014** Groupe d'experts intergouvernemental sur l'évolution du climat 2015

**A participatory approach for hydrometeorological monitoring in the Blue Nile River Basin of Ethiopia** Zemadim, B. 2014-04-08 Participatory research is increasingly recognized as being useful for conducting multiple activities in research for development projects. The co-learning environment created in participatory research helps to identify existing social and technological gaps, and develop possible solutions to improve the livelihoods of rural communities. This report describes a participatory approach used in the establishment and implementation of hydrometeorological monitoring networks in the Blue Nile River Basin of Ethiopia. The networks were established with the involvement of rural communities and other stakeholders to gain insights into the hydrological processes of the watersheds, in order to improve rainwater management strategies. Local people were involved in the day-to-day management and maintenance of the networks. The participatory approach proved beneficial for several reasons, not least, because it instilled trust and goodwill amongst the communities.

**\$10,000 Gold** Nick Barisheff 2013-04-03

**Innovations in the Industrial Internet of Things (IIoT) and Smart Factory** Goundar, Sam 2021-01-22 Industrial internet of things (IIoT) is changing the face of industry by completely redefining the way stakeholders, enterprises, and machines connect and interact with each other in the industrial digital ecosystem. Smart and connected factories, in which all the machinery transmits real-time data, enable industrial data analytics for improving operational efficiency, productivity, and industrial processes, thus creating new business opportunities, asset utilization, and connected services. IIoT leads factories to step out of legacy environments and arcane processes towards open digital industrial ecosystems. Innovations in the Industrial Internet of Things (IIoT) and Smart Factory is a pivotal reference source that discusses the development of models and algorithms for predictive control of industrial operations and focuses on optimization of industrial operational efficiency, rationalization, automation, and maintenance. While highlighting topics such as artificial intelligence, cyber security, and data collection, this book is ideally designed for engineers, manufacturers, industrialists, managers, IT consultants, practitioners, students, researchers, and industrial industry professionals.

**Graphene** Jamie H. Warner 2012-11-17 Providing fundamental knowledge necessary to understand graphene's atomic structure, band-structure, unique properties and an overview of groundbreaking current and emergent applications, this new handbook is essential reading for materials scientists, chemists and physicists. Since the 2010 physics Nobel Prize awarded to Geim and Novosolev for their groundbreaking work isolating graphene from bulk graphite, there has been a huge surge in interest in the area. This has led to a large number of news books on graphene. However, for such a vast inflow of new entrants, the current literature is surprisingly slight, focusing exclusively on current research or books on previous "hot topic" allotropes of carbon. This book covers the fundamental groundwork of the structure, property, characterization methods and applications of graphene, along with providing the necessary knowledge of graphene's atomic structure, how it relates to its band-structure and how this in turn leads to the amazing properties of graphene. And so it provides new graduate students and post-docs with a resource that equips them with the knowledge to undertake their research. Discusses graphene's fundamental structure and properties, acting as a time-saving handbook for validated research Demonstrates 100+ high-quality graphical representations, providing the reader with clear images to convey complex situations Reviews characterization techniques relevant to grapheme, equipping the reader with experimental knowledge relevant for practical use rather than just theoretical understanding

**Surface Preparation Techniques for Adhesive Bonding** Raymond F. Wegman 2012-12-31 Surface Preparation Techniques for Adhesive Bonding is an essential guide for materials scientists, mechanical engineers, plastics engineers, scientists and researchers in manufacturing environments making use of adhesives technology. Wegman and van Twisk provide practical coverage of a topic that receives only cursory treatment in more general books on adhesives, making this book essential reading for adhesion specialists, plastics engineers, and a wide range of engineers and scientists working in sectors where adhesion is an important technology, e.g. automotive / aerospace, medical devices, electronics. Wegman and van Twisk provide a wealth of practical information on the processing of substrate surfaces prior to adhesive bonding. The processing of aluminum and its alloys, titanium and its alloys, steels, copper and its alloys, and magnesium are treated in the form of detailed specifications with comparative data. Other metals not requiring extensive treatment are also covered in detail, as are metal matrix and organic matrix composites, thermosets and thermoplastics. This new edition has been updated with coverage of the latest developments in the field including the sol-gel process for aluminum, titanium, and stainless steel, atmospheric plasma treatment for metals, plastics and rubbers and treatments for bronze and nickel alloys. Updated to include recent technological developments and chemicals currently prescribed for cleaning and surface preparation; a new generation of adhesives technologists can benefit from this classic guide Enables Materials and Process personnel to select the best process available for their particular application Practical coverage of a topic that receives only cursory coverage in more general books on adhesives: essential reading for adhesion specialists, plastics engineers, and a wide range of engineers and scientists working in sectors where adhesion is an important technology, e.g. automotive / aerospace, medical devices, electronics

**Transnational Land Grabs and Restitution in an Age of the (De-)Militarised New Scramble for Africa: A Pan African Socio-Legal** Warikandwa, Tapiwa V. 2017-09-26 One of the fundamental challenges in deconstructing, rethinking and remaking the world from a Pan African vantage point is that some captives have tended to delight in the warmth of the [imperial] predator's mouth. In other words, some captives forget that the imperial predator's mouth gets warm because empire is eating and heating up from prey on the continent. (De-)Militarisation, Transnational Land Grabs and Restitution in an Age of the New Scramble for Africa: A Pan African Socio-Legal Perspective is a book that knocks on key aspects relating to land, militarisation, a PostAfrican World Order and a

chaotic Post-God World Order, which require critical scholarly and policy attention in the quest to free Africa from centuries-old imperial depredations. The book carefully navigates the imperial entrapments which are designed to focus African attention only on decolonising African minds without also engaging in the [imperially more unsettling] decolonisation of African materialities.

**Yearbook of International Organizations 2013-2014** Union of International Associations 2013-06-21 Volume 1 (A and B) of the Yearbook of International Organizations covers international organizations throughout the world, comprising their aims, activities and events

**Ordinary Level Physics** A. F. Abbott 1977

**Clinical Engineering** Azzam Taktak 2019-12-01 Clinical Engineering: A Handbook for Clinical and Biomedical Engineers, Second Edition, helps professionals and students in clinical engineering successfully deploy medical technologies. The book provides a broad reference to the core elements of the subject, drawing from a range of experienced authors. In addition to engineering skills, clinical engineers must be able to work with both patients and a range of professional staff, including technicians, clinicians and equipment manufacturers. This book will not only help users keep up-to-date on the fast-moving scientific and medical research in the field, but also help them develop laboratory, design, workshop and management skills. The updated edition features the latest fundamentals of medical technology integration, patient safety, risk assessment and assistive technology. Provides engineers in core medical disciplines and related fields with the skills and knowledge to successfully collaborate on the development of medical devices, via approved procedures and standards Covers US and EU standards (FDA and MDD, respectively, plus related ISO requirements) Includes information that is backed up with real-life clinical examples, case studies, and separate tutorials for training and class use Completely updated to include new standards and regulations, as well as new case studies and illustrations

**Thermoforming of Single and Multilayer Laminates** Syed Ali Ashter 2013-11-07 Thermoforming of Single and Multilayer Laminates explains the fundamentals of lamination and plastics thermoforming technologies along with current and new developments. It focuses on properties and thermoforming mechanics of plastic films and in particular single and multilayered laminates, including barrier films. For environmental and economic reasons, laminates are becoming increasingly important as a replacement for solid sheets and paint finishes in many industries, including transportation, packaging, and construction. Yet the processes of film formability during the extensive deformation and elevated temperatures experienced in conventional processing technologies, such as thermoforming, are poorly understood by most engineers. This book covers production processes, such as extrusion, calendaring, and casting, as well as mechanical and impact testing methods. It also describes how testing protocols developed for metals can be leveraged for plastic films and laminates, and includes a thorough discussion on methods for performing optical strain analysis. Applications in transportation vehicles and packaging, including packaging for food, medical and electronics applications, sports equipment, and household appliances, are discussed. Safety, recycling and environmental aspects of thermoforming and its products complete the book. First comprehensive source of information and hands-on guide for the thermoforming of multilayered laminates Covers applications across such sectors as automotive, packaging, home goods, and construction Introduces new testing methods leveraging protocols used for metals

**Global Trends 2030** Office of the Director of National Intelligence Council 2017-03-11 This publication covers global megatrends for the next 20 years and how they will affect the United States. This is the fifth installment in the National Intelligence Council's series aimed at providing a framework for thinking about possible futures and their implications. The report is intended to stimulate strategic thinking about the rapid and vast geopolitical changes characterizing the world today and possible global trajectories during the next 15-20 years by identifying critical trends and potential discontinuities. The authors distinguish between megatrends, those factors that will likely occur under any scenario, and game-changers, critical variables whose trajectories are far less certain. NIC 2012-001. Several innovations are included in Global Trends 2030, including: a review of the four previous Global Trends reports, input from academic and other experts around the world, coverage of disruptive technologies, and a chapter on the potential trajectories for the US role in the international system and the possible the impact on future international relations. Table of Contents: Introduction 1 Megatrends 6 Individual Empowerment 8 Poverty Reduction 8 An Expanding Global Middle Class 8 Education and the Gender Gap 10 Role of Communications Technologies 11 Improving Health 11 A MORE CONFLICTED IDEOLOGICAL LANDSCAPE 12 Diffusion of Power 15 THE RISE AND FALL OF COUNTRIES: NOT THE SAME OLD STORY 17 THE LIMITS OF HARD POWER IN THE WORLD OF 2030 18 Demographic Patterns 20 Widespread Aging 20 Shrinking Number of Youthful Countries 22 A New Age of Migration 23 The World as Urban 26 Growing Food, Water, and Energy Nexus 30 Food, Water, and Climate 30 A Brighter Energy Outlook 34 Game-Changers 38 The Crisis-Prone Global Economy 40 The Plight of the West 40 Crunch Time Too for the Emerging Powers 43 A Multipolar Global Economy: Inherently More Fragile? 46 The Governance Gap 48 Governance Starts at Home: Risks and Opportunities 48 INCREASED FOCUS ON EQUALITY AND OPENNESS 53 NEW GOVERNMENTAL FORMS 54 A New Regional Order? 55 Global Multilateral Cooperation 55 The Potential for Increased Conflict 59 INTRASTATE CONFLICT: CONTINUED DECLINE 59 Interstate Conflict: Chances Rising 61 Wider Scope of Regional Instability 70 The Middle East: At a Tipping Point 70 South Asia: Shocks on the Horizon 75 East Asia: Multiple Strategic Futures 76 Europe: Transforming Itself 78 Sub-Saharan Africa: Turning a Corner by 2030? 79 Latin America: More Prosperous but Inherently Fragile 81 The Impact of New Technologies 83 Information Technologies 83 AUTOMATION AND MANUFACTURING TECHNOLOGIES 87 Resource Technologies 90 Health Technologies 95 The Role of the United States 98 Steady US Role 98 Multiple Potential Scenarios for the United States' Global Role 101 Alternative Worlds 107 Stalled Engines 110 FUSION 116 Gini-out-of-the-Bottle 122 Nonstate World 128 Acknowledgements 134 GT2030 Blog References 137 Audience: Appropriate for anyone, from businesses to banks, government agencies to start-ups, the technology sector to the teaching sector, and more. This publication helps anticipate where the world will be: socially, politically, technologically, and culturally over the next few decades. Keywords: Global Trends 2030 Alternative Worlds, global trends 2030, Global Trends series, National Intelligence Council, global trajectories, global megatrends, geopolitics, geopolitical changes

**Limits to Climate Change Adaptation** Walter Leal Filho 2017-11-15 This book sheds new light on the limits of adaptation to anthropogenic climate change. The respective chapters demonstrate the variety of and interconnections between factors that together constitute the constraints on adaptation. The book pays special attention to evidence that illustrates how and where such limits have become apparent or are in the process of establishing themselves, and which indicates future trends and contexts that might prove helpful in understanding adaptation limits. In particular, the book provides an overview of the most important challenges and opportunities regarding adaptation limits at different temporal, jurisdictional, and spatial scales, while also highlighting case studies, projects and best practices that show how they may be addressed. The book presents innovative multi-disciplinary research and gathers evidence from various countries, sectors and regions, the goal being to advance our understanding of the limits to adaptation and ways to overcome or modify them. *Asthma and COPD* Peter J. Barnes 2009-03-19 The Second Edition of Asthma and COPD: Basic Mechanisms and Clinical Management continues to provide a unique and authoritative comparison of asthma and COPD. Written and edited by the world's leading experts, it continues to be a comprehensive review of the most recent understanding of the basic mechanisms of both conditions, specifically comparing their etiology, pathogenesis, and treatments. \* Each chapter considers Asthma and COPD in side-by-side contrast and comparison – not in isolation - in the context of mechanism, triggers, assessments, therapies, and clinical management \* Presents the latest and most comprehensive understandings of the mechanisms of inflammation in both Asthma and COPD \* Most extensive reference to primary literature on both Asthma and COPD in one source. \* Easy-to-read summaries of the latest advances alongside clear

illustrations

**Salinity Gradient Heat Engines** Alessandro Tamburini 2021-11-03 Salinity Gradient Heat Engines classifies all the existing SGHEs and presents an in-depth analysis of their fundamentals, applications and perspectives. The main SGHEs analyzed in this publication are Osmotic, the Reverse Electrodialysis, and the Accumulator Mixing Heat Engines. The production and regeneration unit of both cycles are described and analyzed alongside the related economic and environmental aspects. This approach provides the reader with very thorough knowledge on how these technologies can be developed and implemented as a low-impact power generation technique, wherever low-temperature waste-heat is available. This book will also be a very beneficial resource for academic researchers and graduate students across various disciplines, including energy engineering, chemical engineering, chemistry, physics, electrical and mechanical engineering. Focuses on advanced, yet practical, recovery of waste heat via salinity gradient heat engines Outlines the existing salinity gradient heat engines and discusses fundamentals, potential and perspectives of each of them Includes economics and environmental aspects Provides an innovative reference for all industrial sectors involving processes where low-temperature waste-heat is available.

*Neutron Scattering - Magnetic and Quantum Phenomena* 2015-11-29 Neutron Scattering - Magnetic and Quantum Phenomena provides detailed coverage of the application of neutron scattering in condensed matter research. The book's primary aim is to enable researchers in a particular area to identify the aspects of their work where neutron scattering techniques might contribute, conceive the important experiments to be done, assess what is required to carry them out, write a successful proposal for one of the major user facilities, and perform the experiments under the guidance of the appropriate instrument scientist. An earlier series edited by Kurt Sköld and David L. Price, and published in the 1980s by Academic Press as three volumes in the series Methods of Experimental Physics, was very successful and remained the standard reference in the field for several years. This present work has similar goals, taking into account the advances in experimental techniques over the past quarter-century, for example, neutron reflectivity and spin-echo spectroscopy, and techniques for probing the dynamics of complex materials of technological relevance. This volume complements Price and Fernandez-Alonso (Eds.), Neutron Scattering - Fundamentals published in November 2013. Covers the application of neutron scattering techniques in the study of quantum and magnetic phenomena, including superconductivity, multiferroics, and nanomagnetism Presents up-to-date reviews of recent results, aimed at enabling the reader to identify new opportunities and plan neutron scattering experiments in their own field Provides a good balance between theory and experimental techniques Provides a complement to Price and Fernandez-Alonso (Eds.), Neutron Scattering - Fundamentals published in November 2013

*Treatise on Process Metallurgy, Volume 1: Process Fundamentals* 2013-11-20 Process metallurgy provides academics with the fundamentals of the manufacturing of metallic materials, from raw materials into finished parts or products. Coverage is divided into three volumes, entitled Process Fundamentals, encompassing process fundamentals, extractive and refining processes, and metallurgical process phenomena; Processing Phenomena, encompassing ferrous processing; non-ferrous processing; and refractory, reactive and aqueous processing of metals; and Industrial Processes, encompassing process modeling and computational tools, energy optimization, environmental aspects and industrial design. The work distills 400+ years combined academic experience from the principal editor and multidisciplinary 14-member editorial advisory board, providing the 2,608-page work with a seal of quality. The volumes will function as the process counterpart to Robert Cahn and Peter Haasen's famous reference family, Physical Metallurgy (1996)--which excluded process metallurgy from consideration and which is currently undergoing a major revision under the editorship of David Laughlin and Kazuhiro Hono (publishing 2014). Nevertheless, process and extractive metallurgy are fields within their own right, and this work will be of interest to libraries supporting courses in the process area. Synthesizes the most pertinent contemporary developments within process metallurgy so scientists have authoritative information at their fingertips Replaces existing articles and monographs with a single complete solution, saving time for busy scientists Helps metallurgists to predict changes and consequences and create or modify whatever process is deployed

*Underneath the Bragg Peaks* Takeshi Egami 2003 This book describes a technique of structural study, the atomic-pair distribution function analysis. This is a relatively new technique, with a strong promise of wide application in the study of the local structure of crystalline materials and materials science in general.

**Population Growth and Rapid Urbanization in the Developing World** Benna, Umar G. 2016-06-07 As the global population continues to boom, particularly in the developing countries, it has become necessary to find ways to handle this increase through various policy tools that address population growth and urbanization problems. The urbanization process has both potentials issues as well as opportunities to move societies forward that need to be exploited. Population Growth and Rapid Urbanization in the Developing World examines trends, challenges, issues and strategies adopted by developing countries in the face of population growth and rapid urbanization and its impact on urban environments. The book explores patterns of population growth and urbanization, use of different governance approaches in addressing challenges, as well as different tools and systems of appropriate allocation to address issues. The book is a comprehensive reference for academicians, students, practitioners, professionals, managers, urban planners and government officials.

*Molecular Sensors and Nanodevices* John X J Zhang 2013-12-03 With applications ranging from medical diagnostics to environmental monitoring, molecular sensors (also known as biosensors, chemical sensors, or chemosensors), along with emerging nanotechnologies offer not only valuable tools but also unlimited possibilities for engineers and scientists to explore the world. New generation of functional microsystems can be designed to provide a variety of small scale sensing, imaging and manipulation techniques to the fundamental building blocks of materials. This book provides comprehensive coverage of the current and emerging technologies of molecular sensing, explaining the principles of molecular sensor design and assessing the sensor types currently available. Having explained the basic sensor structures and sensing principles, the authors proceed to explain the role of nano/micro fabrication techniques in molecular sensors, including MEMS, BioMEMS, MicroTAS among others. The miniaturization of versatile molecular sensors opens up a new design paradigm and a range of novel biotechnologies, which is illustrated through case studies of groundbreaking applications in the life sciences and elsewhere. As well as the techniques and devices themselves, the authors also cover the critical issues of implantability, biocompatibility and the regulatory framework. The book is aimed at a broad audience of engineering professionals, life scientists and students working in the multidisciplinary area of biomedical engineering. It explains essential principles of electrical, chemical, optical and mechanical engineering as well as biomedical science, intended for readers with a variety of scientific backgrounds. In addition, it will be valuable for medical professionals and researchers. An online tutorial developed by the authors provides learning reinforcement for students and professionals alike. Reviews of state-of-the-art molecular sensors and nanotechnologies Explains principles of sensors and fundamental theories with homework problems at the end of each chapter to facilitate learning Demystifies the vertical integration from nanomaterials to devices design Covers practical applications the recent progress in state-of-the-art sensor technologies Includes case studies of important commercial products Covers the critical issues of implantability, biocompatibility and the regulatory framework

*Small reservoirs in Africa: a review and synthesis to strengthen future investment* Saruchera, D. 2019-11-04

**Topological Insulators** C. Brüne 2013-11-23 This chapter will focus on the experimental properties of the quantum spin Hall effect in HgTe quantum well structures. HgTe quantum wells above a critical thickness are 2-dimensional topological insulators. The most prominent signature of the non-trivial topology in these systems is the occurrence of the quantum spin Hall effect when the Fermi energy is located inside the bulk band gap. We will present the main experimental results we obtained for transport in the quantum spin Hall regime and discuss how they confirm the prediction of the quantum spin Hall effect as a helical edge state system consisting of two counterpropagating oppositely spin polarized edge states.

**Drawing for Science Education** Phyllis Katz 2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning. The authors are working in schools, universities, and continual science learning (CSL) settings around the world. They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking - sometimes direct observation and in other instances, their memories. The result is a collection of research and essays that offer theory, techniques, outcomes, and models for the reader. Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms. Secondary students describe their ideas of chemistry and physics. Teacher educators use drawings to consider the progress of their undergraduates' understanding of science teaching and even their moral/ethical responses to teaching about climate change. Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted. A physician explains how the history of drawing has been a critical tool to medical education and doctor-patient communications. Each chapter contains samples, insights, and where applicable, analysis techniques. The chapters in this book should be helpful to researchers and teachers alike, across the teaching and learning continuum. The sections are divided by the kinds of activities for which drawing has historically been used in science education: An

instance of observation (Audubon, Linnaeus); A process (how plants grow over time, what happens when chemicals combine); Conceptions of what science is and who does it; Images of identity development in science teaching and learning.

**Indigenous knowledge systems and climate change management in Africa** Ajayi, O.C. (ed) 2017-11-15 Climate change presents a profound challenge to food security and sustainable development in Africa. Its negative impacts are likely to be greatest in the African region, which is already food insecure. In the face of global climate change and its emerging challenges and unknowns, it is essential that decision makers base policies on the best available knowledge. In recent years, the knowledge of local and indigenous people, often referred to as indigenous knowledge (IK) has been increasingly recognised as an important source of climate knowledge and adaptation strategies.

**Diffusion MRI** Heidi Johansen-Berg 2013-11-26 This title covers the field of diffusion imaging from the fundamental theory to its most cutting-edge applications. It contains sufficient detail to be a reference book for medical physicists, but also covers aspects of experimental design and example applications that will be of interest to clinical and basic neuroscientists. (Neuroscience)

*How To Write a Paper* George M. Hall 2012-10-19 This concise paperback is one of the best known guides to writing apaper for publication in biomedical journals. Its straightforwardformat - a chapter covering each of part of the structuredabstract - makes it relevant and easy to use for any novicepaper writer. How to Write a Paper addresses the mechanics ofsubmission, including electronic submission, and how publishershandle papers, writing letters to journals abstracts for scientificmeetings, and assessing papers. This new edition also covers how towrite a book review and updated chapters on ethics, electronicpublication and submission, and the movement for open access.

*Daily Language Review* Evan-Moor 2010-01-01 Develop your grade 7 students sentence editing, punctuation, grammar, vocabulary, word study, and reference skills using 180 focused 10- to 15-minute daily activities.

**Legionnaire** Simon Murray 2011-11-11 'One of the greatest adventure stories in years.' - Chris Patten 'The drama, excitement and colour of a good guts-and-glory thriller.' - Dr. Henry Kissinger The French Foreign Legion - mysterious, romantic, deadly - is filled with men of dubious character, and hardly the place for a proper Englishman just nineteen years of age. Yet in 1960, Simon Murray traveled alone to Paris, Marseilles, and on to Algeria to fulfill the toughest contract of his life: a five-year stint in the Legion. Along the way, he kept a diary. Legionnaire is a compelling, firsthand account of Murray's experience with this legendary band of soldiers. Subjected to brutal sergeants, merciless training methods and barbaric punishments - all in the hostile, sun-baked North African desert - Murray and his fellow men were pushed to breaking point, and beyond. Sixty years on, it remains a remarkable account of one of the most notorious military groups, a tale of true adventure and one man's determination never to surrender.

*Introduction to Quantum Mechanics* David J. Griffiths 2019-11-20 Changes and additions to the new edition of this classic textbook include a new chapter on symmetries, new problems and examples, improved explanations, more numerical problems to be worked on a computer, new applications to solid state physics, and consolidated treatment of time-dependent potentials.

**Combustion** Irvin Glassman 2014-12-02 Throughout its previous four editions, Combustion has made a very complex subject both enjoyable and understandable to its student readers and a pleasure for instructors to teach. With its clearly articulated physical and chemical processes of flame combustion and smooth, logical transitions to engineering applications, this new edition continues that tradition. Greatly expanded end-of-chapter problem sets and new areas of combustion engineering applications make it even easier for students to grasp the significance of combustion to a wide range of engineering practice, from transportation to energy generation to environmental impacts. Combustion engineering is the study of rapid energy and mass transfer usually through the common physical phenomena of flame oxidation. It covers the physics and chemistry of this process and the engineering applications—including power generation in internal combustion automobile engines and gas turbine engines. Renewed concerns about energy efficiency and fuel costs, along with continued concerns over toxic and particulate emissions, make this a crucial area of engineering. New chapter on new combustion concepts and technologies, including discussion on nanotechnology as related to combustion, as well as microgravity combustion, microcombustion, and catalytic combustion—all interrelated and discussed by considering scaling issues (e.g., length and time scales) New information on sensitivity analysis of reaction mechanisms and generation and application of reduced mechanisms Expanded coverage of turbulent reactive flows to better illustrate real-world applications Important new sections on stabilization of diffusion flames—for the first time, the concept of triple flames will be introduced and discussed in the context of diffusion flame stabilization

**Climate Change 2014 - Impacts, Adaptation and Vulnerability: Regional Aspects** Intergovernmental Panel on Climate Change 2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard reference for all those concerned with climate change and its consequences, including students, researchers and policy makers in environmental science, meteorology, climatology, biology, ecology, atmospheric chemistry and environmental policy.

**Water is Life** Hellum, Anne 2015-10-19 This book approached water and sanitation as an African gender and human rights issue. Empirical case studies from Kenya, Malawi, South Africa and Zimbabwe show how coexisting international, national and local regulations of water and sanitation respond to the ways in which different groups of rural and urban women gain access to water for personal, domestic and livelihood purposes. The authors, who are lawyers, sociologists, political scientists and anthropologists, explore how women cope in contexts where they lack secure rights, and participation in water governance institutions, formal and informal. The research shows how women - as producers of family food - rely on water from multiple sources that are governed by community based norms and institutions which recognise the right to water for livelihood. How these 'common pool water resources' - due to protection gaps in both international and national law - are threatened by large-scale development and commercialisation initiatives, facilitated through national permit systems, is a key concern. The studies demonstrate that existing water governance structures lack mechanisms which make them accountable to poor and vulnerable water users on the ground, most importantly women. The findings thus underscore the need to intensify measures to hold states accountable, not just in water services provision, but in assuring the basic human right to clean drinking water and sanitation; and also to protect water for livelihoods.

**Alan Turing: His Work and Impact** S. Barry Cooper 2013-03-18 In this 2013 winner of the prestigious R.R. Hawkins Award from the Association of American Publishers, as well as the 2013 PROSE Awards for Mathematics and Best in Physical Sciences & Mathematics, also from the AAP, readers will find many of the most significant contributions from the four-volume set of the Collected Works of A. M. Turing. These contributions, together with commentaries from current experts in a wide spectrum of fields and backgrounds, provide insight on the significance and contemporary impact of Alan Turing's work. Offering a more modern perspective than anything currently available, Alan Turing: His Work and Impact gives wide coverage of the many ways in which Turing's scientific endeavors have impacted current research and understanding of the world. His pivotal writings on subjects including computing, artificial intelligence, cryptography, morphogenesis, and more display continued relevance and insight into today's scientific and technological landscape. This collection provides a great service to researchers, but is also an approachable entry point for readers with limited training in the science, but an urge to learn more about the details of Turing's work. 2013 winner of the prestigious R.R. Hawkins Award from the Association of American Publishers, as well as the 2013 PROSE Awards for Mathematics and Best in Physical Sciences & Mathematics, also from the AAP Named a 2013 Notable Computer Book in Computing Milieux by Computing Reviews Affordable, key collection of the most significant papers by A.M. Turing Commentary explaining the significance of each seminal paper by preeminent leaders in the field Additional resources available online

*Adapting to Climate Change* W. Neil Adger 2009-06-25 This presents top scientific research by leading researchers and practitioners on the critical issue of adapting to climate change.

*The Hockey Stick and the Climate Wars* Michael E. Mann 2012 A member of the Inter-governmental Panel on Climate Change examines the fossil-fuel industry's public relations campaign to discredit the science of climate change and deny the reality of global warming.

**Reading in the mobile era** West, Mark 2014-04-28 Millions of people do not read for one reason: they do not have access to text. But mobile phones and cellular networks are transforming a scarce resource into an abundant one. Drawing on the analysis of over 4,000 surveys collected in seven developing countries and corresponding qualitative interviews, this report paints a detailed picture of who reads books and stories on mobile devices and why. The findings illuminate, for the first time, the habits, beliefs and profiles of mobile readers in developing countries. This information points to strategies to expand mobile reading and, by extension, the educational and socio-economic benefits associated with increased reading. Mobile technology can advance literacy and

learning in underserved communities around the world. This report shows how.

**The Theory of Political Economy** William Stanley Jevons 1888

**World Migration Report 2020** United Nations 2019-11-27 Since 2000, IOM has been producing world migration reports. The World Migration Report 2020,

the tenth in the world migration report series, has been produced to contribute to increased understanding of migration throughout the world. This new edition presents key data and information on migration as well as thematic chapters on highly topical migration issues, and is structured to focus on two key contributions for readers: Part I: key information on migration and migrants (including migration-related statistics); and Part II: balanced, evidence-based analysis of complex and emerging migration issues.