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KEY=1 - HOUSTON ALVAREZ

Rethinking Machine Ethics in the Age of Ubiquitous Technology IGI Global As the utilization of intelligent machines spreads to numerous realms, the discourse of machine ethics has also developed and expanded. Concerns over machine intelligence and the role of automata in everyday life must be addressed before artificial intelligence and robotic technologies may be fully integrated into human society. *Rethinking Machine Ethics in the Age of Ubiquitous Technology* blends forward-looking, constructive, and interdisciplinary visions of ethical ideals, aims, and applications of machine technology. This visionary reference work incorporates ethical conversations in the fields of technology, computer science, robotics, and the medical industry, creating a vibrant dialogue between philosophical ideals and the applied sciences. With its broad scope of relevant topics, this book serves as an excellent tool for policymakers, academicians, researchers, advanced-level students, technology developers, and government officials. This timely publication features thoroughly researched articles on the topics of artificial moral agency, cyber-warfare, transhumanism, organic neural nets, human worker replacement, automaticity and global governance, security and surveillance, military drones, and more.

Mental Health and Older People A Guide for Primary Care Practitioners Springer This case-based book offers primary care practitioners support in managing older people with difficulties due to mental health problems, emphasising the importance of integrating health and social care. The full range of disorders is covered, including anxiety and depression, delirium, psychosis and the dementias. The discussion of anxiety and depression encompasses diagnosis and management, assessment of risk, evidence for both pharmacological and non-pharmacological interventions, and models of care. Clear guidance is provided on the identification and management of symptoms of delirium and different forms of psychosis in older people. The coverage of the dementias includes

presentation, initial management, risks to self and others, referral to specialist care and care of older people in residential and nursing homes. Each chapter is co-written by authors from different professional backgrounds and draws on up-to-date national and international research and guidelines. The book will assist greatly in the commissioning and delivery of evidence-based practice. **IB Physics Course Book for the IB Diploma** OUP Oxford The most comprehensive match to the new 2014 Chemistry syllabus, this completely revised edition gives you unrivalled support for the new concept-based approach, the Nature of science. The only DP Chemistry resource that includes support directly from the IB, focused exam practice, TOK links and real-life applications drive achievement. **Strengthening Forensic Science in the United States A Path Forward** National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators. **Research Handbook of Finance and Sustainability** Edward Elgar Publishing The severe consequences of the global financial crisis 2008-2009 and numerous accounting frauds and financial scandals over the last fifteen years have led to calls for more ethical and responsible actions in all economic activities including consumption, investing, governance and regulation. Despite the fact that ethics in business and corporate social responsibility rules have been adopted in various countries, more efforts have to be devoted to motivate and empower more actors to integrate ethical behavior and rules in making business and managerial decisions. The Research Handbook of Finance and Sustainability will provide the readers but particularly investors, managers, and policymakers with comprehensive coverage of the issues at the crossroads of finance, ethics and sustainable development as well as proposed solutions, while focusing on three different levels: corporations, investment funds, and financial markets. **Is the Planet Full?** OUP Oxford What are the impacts of population growth? Can our planet support the demands of the ten billion people anticipated to be the world's population by the middle of this century? While it is common to hear about the problems of overpopulation, might there be unexplored benefits of increasing numbers of people in the

world? How can we both consider and harness the potential benefits brought by a healthier, wealthier and larger population? May more people mean more scientists to discover how our world works, more inventors and thinkers to help solve the world's problems, more skilled people to put these ideas into practice? In this book, leading academics with a wide range of expertise in demography, philosophy, biology, climate science, economics and environmental sustainability explore the contexts, costs and benefits of a burgeoning population on our economic, social and environmental systems. **Your Passport to Gifted Education** Springer This book is a guide to help teachers, parents, guidance counselors and other stakeholders understand the importance of intervention for gifted children and to become an advocate for those individuals who are developmentally advanced. The reader becomes engaged in the analogy of a three part airplane journey to the world of gifted education: 'Embarking on a Journey;' 'Preparing for Departure' and 'Planning for Arrival.' The author offers insightful case studies followed by strategies for both teachers and parents gained from personal experiences and research to identify and work with different types of children who present unique challenges due to their special needs of high potential. By presenting a historical overview in gifted education from a global perspective, Your Passport to Gifted Education provides current internationally-researched information to clarify what is meant by 'giftedness' according to various cultures. The book encourages the development of a growth mindset in the reader to seek to identify various characteristics of high ability in all children. Four international high ability identification models are introduced, including one relatively new to North America, the High Performance Learning Framework (HPL), currently used throughout China, Europe, the Middle East and South East Asia. Dispelling the myth that gifted children do not need our help, the reader gains insight into the uniquely different types of gifted individuals. The book concludes by awarding the reader with a 'Landing Card' to serve as a bookmark that underpins the best teaching practices in gifted education. A directory list of websites for international gifted organizations is also included to offer additional resources for those who want to continue their journey as advocates and learn how other countries support gifted children around the world. **Environmental Change, Livelihood Issues and Migration Sundarban Biosphere Reserve, India** Springer Nature This book deals with the out-migration from the UNESCO designated Sundarban Biosphere Reserve in India. It focuses on the question whether out-migration is a consequence of environmental change or livelihood issues and development deficit. It investigates the processes of migration from a broad spectrum, exploring a wide range of economic, social, and demographic factors along with environmental stressors. The processes of migration studied and empirically illustrated include migration stream, migration pattern, reasons for migration, the nexus between migration and social network, aspiration and different human, economic and physical capital. The book adopts a modelistic approach called the Sustainable Livelihood Approach (SLA) to investigate whether migration from Sundarban is an environmental migration or not. In addition it uses the risk perception approach of people's cognition or 'affective imagery' to examine the degree of perceived environmental risk in the means of living, especially farming and fishing, of the islanders of Sundarban. The book will be of interest to researchers and academicians in the areas of migration studies, geography,

political science, sociology and economics. **The Politics of Climate Change Knowledge Labelling Climate Change-induced Uprooted People** Routledge This book addresses political knowledge of climate change and its relation to labelling people affected by climate change, either as 'climate refugees' or as 'climate change-induced displaced people or migrants'. By questioning the knowledge of climate change and subsequent labelling of people, this book will spark debate in studies of global climate politics and transnational policy networks. Rather than considering the issue of climate change as a given phenomenon, the author explores how the politicized knowledge of climate change has been produced in international negotiations and how that knowledge is transmitted from global forums to local country levels via climate change action plans and resilience projects. This book introduces the concept of multi-scalar knowledge brokers (MKBs) - individual actors who work at multiple levels (local, national, and international) to transmit the knowledge of climate change from global level to local level. The author uses the primary case study of Bangladesh to demonstrate how the dominant actors in global climate politics - the Intergovernmental Panel on Climate Change (IPCC), the United Nations Framework Convention on Climate Change (UNFCCC), and the World Bank, as well as the USA and the UK - interact with the government and local NGOs in Bangladesh regarding transmitting the knowledge of climate change, labelling the uprooted people, and implementing resilience projects. This book will be of interest to students, scholars, and practitioners of international relations, environmental politics, climate change studies, political ecology, political geography, and migration and displacement studies. The Open Access version of this book, available at www.taylorfrancis.com, has been made available under a Creative Commons Attribution- Non Commercial- No Derivatives 4.0 license. **Climate Change and the 2030 Corporate Agenda for Sustainable Development** Emerald Group Publishing This volume explores the meaning of the Paris Climate Agreement 2015 for business; it analyses its challenges and implications, and establishes required actions by the private sector in order to address climate change. We include contributions from diverse locations and disciplines on the challenges this poses for businesses across the globe. **Climate Change Research at Universities Addressing the Mitigation and Adaptation Challenges** Springer This unique book provides a multidisciplinary review of current, climate-change research projects at universities around the globe, offering perspectives from all of the natural and social sciences. Numerous universities worldwide pursue state-of-the-art research on climate change, focussing on mitigation of its effects as well as human adaptation to it. However, the 2015 Paris 21st Conference of the Parties of the United Nations Framework Convention on Climate Change (UNFCCC) (COP 21)" demonstrated that there is still much room for improvement in the role played by universities in international negotiations and decision-making on climate change. To date, few scientific meetings have provided multidisciplinary perspectives on climate change in which researchers across the natural and social sciences could come together to exchange research findings and discuss methods relating to climate change mitigation and adaption studies. As a result the published literature has also lacked a broad perspective. This book fills that gap and is of interest to all researchers and policy-makers concerned with global climate change regardless of their area of expertise. **Designing the Compassionate City**

Creating Places Where People Thrive Routledge Designing the Compassionate City outlines an approach to urban design that is centred on an explicit recognition of the inherent dignity of all people. It suggests that whether we thrive or decline—as individuals or as a community—is dependent on our ability to fulfil the full spectrum of our needs. This book considers how our surroundings help or hinder us from meeting these needs by influencing both what we can do and what we want to do; either inspiring us to lead healthy, fulfilled lives or consigning us to diminished lives tainted by ill health and unfulfilled potential. Designing the Compassionate City looks at how those who participate in designing towns and cities can collaborate with those who live in them to create places that help people to accumulate the life lessons, experiences and achievements, as well as forge the connections to meet their needs, to thrive and to fulfil their potential. The book explores a number of inspiring case studies that have sought to meet this challenge and examines what has worked and what hasn't. From this, some conclusions are drawn about how we can all participate in creating places that leave a lasting legacy of empowerment and commitment to nurturing one another. It is essential reading for students and practitioners designing happier, healthier places.

Women and Sport From Liberation to Celebration Human Kinetics Women and Sport: Continuing a Journey of Liberation and Celebration is a comprehensive textbook for interdisciplinary courses that focus on women and gender studies in sport. It provides readers with thought-provoking discussions about the history, evolution, and current role of women in sport.

Media and the Ecological Crisis Routledge Media and the Ecological Crisis is a collaborative work of interdisciplinary writers engaged in mapping, understanding and addressing the complex contribution of media to the current ecological crisis. The book is informed by a fusion of scholarly, practitioner, and activist interests to inform, educate, and advocate for real, environmentally sound changes in design, policy, industrial, and consumer practices. Aligned with an emerging area of scholarship devoted to identifying and analysing the material physical links of media technologies, cultural production, and environment, it contributes to the project of greening media studies by raising awareness of media technology's concrete environmental effects.

Technólogos in Being Radical Media Archaeology & the Computational Machine Bloomsbury Publishing USA Wolfgang Ernst's new work, Technólogos in Being, in its explicit media-scientific approach, aligns with the politics of the thinking media series to publish innovative works that advance media studies towards the 'new sciences.' Ernst's invites readers to re-adjust their ideas of Media Studies: the conviction that an extended understanding of "medium" needs to include a concept of materiality that focuses on "non- human" agencies as well. The book grounds media analysis radically in the technological apparatuses, relays, transistors, hard- and software, to precisely locate the scenes, operations and frictions where reasoning logos and 'informable' matter interfere.

Future Directions of Credentialing Research in Nursing Workshop Summary National Academies Press The nurse workforce constitutes the largest sector of health professionals in the United States and includes individuals with varying educational backgrounds and expertise. Like other health professions, nursing includes a large number of specialties and subspecialties. Nurses may seek certification, based on various standards and criteria, from a wide range of

organizations. Similarly, organizations may participate in nursing credentialing programs, which typically reflect the attainment of various nursing care standards and outcome measures. It is, however, unclear how this additional training and education affects health care quality and patient health. Future Directions of Credentialing Research in Nursing examines short- and long-term strategies to advance research on nurse certification and organizational credentialing. This report summarizes a workshop convened by the Institute of Medicine in September 2014 to examine a new framework and research priorities to guide future research on the impact of nurse credentialing and certification on outcomes for nurses, organizations, and patients. Over 100 people attended the workshop, which focused on topics such as emergent priorities for research in nursing credentialing; critical knowledge gaps and methodological limitations in the field; promising developments in research methodologies, health metrics, and data infrastructures to better evaluate the impact of nursing credentialing; and short- and long-term strategies to encourage continued activity in nursing credentialing research. Future Directions of Credentialing Research in Nursing is a record of the presentations, discussion, and break-out sessions of this event.

The State of Food Security and Nutrition in the World 2019 Safeguarding against economic slowdowns and downturns Food & Agriculture Org. This year's report presents evidence that the absolute number of people who suffer from hunger continues to slowly increase. The report also highlights that food insecurity is more than just hunger. For the first time, the report provides evidence that many people in the world, even if not hungry, experience moderate food insecurity as they face uncertainties about their ability to obtain food and are forced to compromise on the quality and/or quantity of the food they consume. This phenomenon is observed globally, not only in low- and middle-income countries but also in high income countries. The report also shows that the world is not on track to meet global nutrition targets, including those on low birthweight and on reducing stunting among children under five years. Moreover, overweight and obesity continue to increase in all regions, particularly among school-age children and adults. The report stresses that no region is exempt from the epidemic of overweight and obesity, underscoring the necessity of multifaceted, multisectoral approaches to halt and reverse these worrying trends. In light of the fragile state of the world economy, the report presents new evidence confirming that hunger has been on the rise for many countries where the economy has slowed down or contracted. Unpacking the links between economic slowdowns and downturns and food insecurity and malnutrition, the report contends that the effects of the former on the latter can only be offset by addressing the root causes of hunger and malnutrition: poverty, inequality and marginalization.

Early Education Curriculum: A Child's Connection to the World Cengage Learning EARLY EDUCATION CURRICULUM: A CHILD'S CONNECTION TO THE WORLD focuses on the role of observation and assessment in early childhood programming, the process of planning and implementing a curriculum, setting up an inclusive child-centered environment, and the uses of evaluation and documentation for continuous program improvement. Updated with current research and standards, the text continues to present new material on brain research that underlies teaching ideas as well as information on reflective practice, intentional teaching, and using the environment as a teaching tool. The seventh edition includes

more material on diversity and diversity strategies, activity plans for different age groups, and more floor plans. New case studies provide examples of how activities planned align with specific standards, and allow students to apply knowledge gained to real-life situations. The book retains its strong applied focus on the how-to's of teaching, with many hands-on teaching tips. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Oil's Deep State How the petroleum industry undermines democracy and stops action on global warming - in Alberta, and in Ottawa James Lorimer & Company Why have democratic governments failed to take serious steps to reduce carbon emissions despite dire warnings and compelling evidence of the profound and growing threat posed by global warming? Most of the writing on global warming is by scientists, academics, environmentalists, and journalists. Kevin Taft, a former leader of the opposition in Alberta, brings a fresh perspective through the insight he gained as an elected politician who had an insider's eyewitness view of the role of the oil industry. His answer, in brief: The oil industry has captured key democratic institutions in both Alberta and Ottawa. Taft begins his book with a perceptive observer's account of a recent court case in Ottawa which laid bare the tactics and techniques of the industry, its insiders and lobbyists. He casts dramatic new light on exactly how corporate lobbyists, politicians, bureaucrats, universities, and other organizations are working together to pursue the oil industry's agenda. He offers a brisk tour of the recent work of scholars who have developed the concepts of the deep state and institutional capture to understand how one rich industry can override the public interest. Taft views global warming and weakened democracy as two symptoms of the same problem — the loss of democratic institutions to corporate influence and control. He sees citizen engagement and direct action by the public as the only response that can unravel big oil's deep state.

Abstracts of Papers Third Chemical Congress of North America, Toronto, Canada, June 5-10, 1988 Handbook of Research on Climate Change Impact on Health and Environmental Sustainability IGI Global Climate change is not only one of the greatest threats to modern civilization; it is also a great challenge to economic development in the 21st century. Global warming can lead to periods of both drought and intense rain, causing crops to fail and ruining the livelihoods of many in underdeveloped countries. The Handbook of Research on Climate Change Impact on Health and Environmental Sustainability is an authoritative reference source that offers a comprehensive and timely analysis of various aspects of global warming and its consequences. Featuring such topics as assessment of and adaption to climate change, water and its socio-economic impact, the environmental effects of climate change on human health, and the mitigation of climate change on both a local and global level, this expansive handbook is an essential reference source for students, researchers, academicians, engineers, government executives, and other practitioners looking to make a difference in the treatment of our environment. This publication features timely research on subjects including, but not limited to, climate change and its effect on both urbanization and the trade competitiveness of different regions, water-related diseases flourishing due to climate change, health risks and rethinking health service provision, losses from natural disasters, farmers' views on the environment, drought management policies, groundwater

resource management, trends in long-term rainfall, fishery management and productivity, preserving biodiversity, and sustainable forest use. **Selected Papers from the 14th Estuarine and Coastal Modeling Conference** MDPI This book is a printed edition of the Special Issue "Selected Papers from the 14th Estuarine and Coastal Modeling Conference" that was published in JMSE

Ecopsychology: Advances from the Intersection of Psychology and Environmental Protection [2 volumes] **Advances from the Intersection of Psychology and Environmental Protection** ABC-CLIO This anthology is a two-volume work that focuses on our relationship with the Earth and our future, examining the crossover between psychology and environmental studies in the emerging fields of ecopsychology and environmental psychology. Addresses the "hot topic" of today: how psychology and environmental studies intersect in the fields of ecopsychology and environmental psychology Presents a breadth of perspectives from authors with various fields of expertise, from scientists to interventionists, conquerors to caretakers, political leaders to grassroots activists—all of whom are needed to effect change Utilizes the knowledge of contributors from the fields of psychology, science, humanitarianism, environmental studies, business, United Nations, law, and policymaking Addresses the facts, feelings, needs, and possibilities that must be considered when planning for the future since the psychology of environmental messaging is just as important as its geology Offers a range of solutions—based on research and real implementations of programs around the world—for preserving our planet and caring for our environment

Medical Imaging Physics John Wiley & Sons This comprehensive publication covers all aspects of image formation in modern medical imaging modalities, from radiography, fluoroscopy, and computed tomography, to magnetic resonance imaging and ultrasound. It addresses the techniques and instrumentation used in the rapidly changing field of medical imaging. Now in its fourth edition, this text provides the reader with the tools necessary to be comfortable with the physical principles, equipment, and procedures used in diagnostic imaging, as well as appreciate the capabilities and limitations of the technologies.

Health Literacy The Solid Facts As societies grow more complex and people are increasingly bombarded with health information and misinformation, health literacy becomes essential. People with strong health literacy skills enjoy better health and well-being, while those with weaker skills tend to engage in riskier behavior and have poorer health. With evidence from the recent European Health Literacy Survey, this report identifies practical and effective ways public health and other sector authorities and advocates can strengthen health literacy in a variety of settings, including educational settings, workplaces, marketplaces, health systems, new and traditional media and political arenas. The report can be used as a tool for spreading awareness, stimulating debate and research and, above all, for informing policy development and action.

MIMA BULLETIN VOLUME 28 2021 Maritime Institute of Malaysia (MIMA) Improving the Maritime Cybersecurity in Malaysia With the advancement of technology, the maritime industry has become increasingly digitalised and relies on an Internet connection for information technology (IT) and operational techno-logy (OT) systems. The IT and OT systems are also converging due to the emergence of the Industrial Internet of Things (IIoT). As a result, cybersecurity threats within the maritime sector have been on the rise. **Bahrain's Uprising**

Resistance and Repression in the Gulf Zed Books Ltd. Amid the extensive coverage of the Arab uprisings, the Gulf state of Bahrain has been almost forgotten. Fusing historical and contemporary analysis, Bahrain's Uprising seeks to fill this gap, examining the ongoing protests and state repression that continues today. Drawing on powerful testimonies, interviews, and conversations from those involved, this broad collection of writings by scholars and activists provides a rarely heard voice of the lived experience of Bahrainis, describing the way in which a sophisticated society, defined by a historical struggle, continues to hamper the efforts of the ruling elite to rebrand itself as a liberal monarchy.

DeLee & Drez's Orthopaedic Sports Medicine E-Book Elsevier Health Sciences The revised, streamlined, and reorganized DeLee & Drez's Orthopaedic Sports Medicine continues to be your must-have orthopaedics reference, covering the surgical, medical, and rehabilitation/injury prevention topics related to athletic injuries and chronic conditions. It provides the most clinically focused, comprehensive guidance available in any single source, with contributions from the most respected authorities in the field. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Be prepared to handle the full range of clinical challenges with coverage of both pediatric and aging athletes; important non-orthopaedic conditions involved in the management of the athlete; rapidly evolving techniques; and sports-related fractures. Understand rehabilitation and other therapeutic modalities in the context of return to play. Take advantage of in-depth coverage of arthroscopic techniques, including ACL reconstruction, allograft cartilage transplantation, rotator cuff repair, and complications in athletes, as well as injury prevention, nutrition, pharmacology, and psychology in sports. Equip yourself with the most current information surrounding hot topics such as hip pain in the athlete, hip arthroscopy, concussions, and medical management of the athlete. Remain at the forefront of the field with content that addresses the latest changes in orthopaedics, including advances in sports medicine community knowledge, evidence-based medicine, ultrasound-guided injections, biologic therapies, and principles of injury prevention. Enhance your understanding with fully updated figures throughout. Take a global view of orthopaedic sports medicine with the addition of two new international section editors and supplemental international content. Access even more expert content in new "Author's Preferred Technique" sections. Find the information you need more quickly with this completely reorganized text.

World Report on Ageing and Health World Health Organization The WHO World report on ageing and health is not for the book shelf it is a living breathing testament to all older people who have fought for their voice to be heard at all levels of government across disciplines and sectors. - Mr Bjarne Hastrup President International Federation on Ageing and CEO DaneAge This report outlines a framework for action to foster Healthy Ageing built around the new concept of functional ability. This will require a transformation of health systems away from disease based curative models and towards the provision of older-person-centred and integrated care. It will require the development sometimes from nothing of comprehensive systems of long term care. It will require a coordinated response from many other sectors and multiple levels of government. And it will need to draw on better ways of measuring and monitoring the health and functioning of older populations. These actions are likely to be a sound investment in society's future. A

future that gives older people the freedom to live lives that previous generations might never have imagined. The World report on ageing and health responds to these challenges by recommending equally profound changes in the way health policies for ageing populations are formulated and services are provided. As the foundation for its recommendations the report looks at what the latest evidence has to say about the ageing process noting that many common perceptions and assumptions about older people are based on outdated stereotypes. The report's recommendations are anchored in the evidence comprehensive and forward-looking yet eminently practical. Throughout examples of experiences from different countries are used to illustrate how specific problems can be addressed through innovation solutions. Topics explored range from strategies to deliver comprehensive and person-centred services to older populations to policies that enable older people to live in comfort and safety to ways to correct the problems and injustices inherent in current systems for long-term care.

Understanding Pedagogy Developing a critical approach to teaching and learning Routledge What is meant by pedagogy? How does our conception of pedagogy inform good teaching and learning? Pedagogy is a complex concept of which student and practising teachers need to have an understanding, yet there remain many ambiguities about what the term means, and how it informs learning in the classroom. Understanding Pedagogy examines pedagogy in a holistic way, supporting a more critical and reflective understanding of teaching and learning. It considers pedagogy as a concept that covers not just teaching approaches and pupil-teacher relationships but one which also embraces and informs educational theory, personal learning styles, assessment, and relationships inside and outside the classroom. A detailed consideration of what it means to be a professional in the contemporary climate, Understanding Pedagogy challenges student and practising teachers to reappraise their understanding and practice through effectively linking theory and practice. Key issues explored include the importance of understanding a learning styles profile, the application of cognitive neuroscience to teaching, personalised learning, assessment and feedback, and what we mean by critical reflection. Using the Personal Learning Styles Pedagogy, the authors make explicit the integration of theory and practice and the many decisions and selections that teachers make, their implications for what is being taught and learnt, how learners are positioned in the pedagogical process, and ultimately, how learning can be improved. Understanding Pedagogy will be essential reading for student and practising teachers, as well those on Education Studies courses and undertaking masters level courses, involved in the endeavour of understanding what constitutes effective teaching and learning.

Energy Technologies and Economics Springer This is an easy-to-read textbook providing the reader with the basis to comprehend the major energy technologies from a physical and economical perspective. The journey through the book begins with some background theory on the physics and economics of energy. Major energy technologies (fossil, nuclear and renewable) are explored in-depth, explaining how they work and the costs involved. Finally, the journey ends by exploring the technical and economic feasibility of supplying the world by 2050 with sustainable energy only. Numerous examples are provided to allow the reader to relate important concepts to real-life. The reader's understanding of the material can then be tested using the exercises at the end of each

chapter. This textbook is the first to thoroughly present the physics and the economics of energy. It is intended for graduate students and practitioners interested in the field of energy. It also enables the general reader to distinguish between political statement and fact. **Engineering Response to Climate Change** CRC Press A clear, concise discussion of today's hottest topics in climate change, including adapting to climate change and geo-engineering to mitigate the effects of change, Engineering Response to Climate Change, Second Edition takes on the tough questions of what to do and offers real solutions to the practical problems caused by radical changes in the Ea **Health Data Privacy under the GDPR Big Data Challenges and Regulatory Responses** Routledge The growth of data-collecting goods and services, such as ehealth and mhealth apps, smart watches, mobile fitness and dieting apps, electronic skin and ingestible tech, combined with recent technological developments such as increased capacity of data storage, artificial intelligence and smart algorithms, has spawned a big data revolution that has reshaped how we understand and approach health data. Recently the COVID-19 pandemic has foregrounded a variety of data privacy issues. The collection, storage, sharing and analysis of health-related data raises major legal and ethical questions relating to privacy, data protection, profiling, discrimination, surveillance, personal autonomy and dignity. This book examines health privacy questions in light of the General Data Protection Regulation (GDPR) and the general data privacy legal framework of the European Union (EU). The GDPR is a complex and evolving body of law that aims to deal with several technological and societal health data privacy problems, while safeguarding public health interests and addressing its internal gaps and uncertainties. The book answers a diverse range of questions including: What role can the GDPR play in regulating health surveillance and big (health) data analytics? Can it catch up with internet-age developments? Are the solutions to the challenges posed by big health data to be found in the law? Does the GDPR provide adequate tools and mechanisms to ensure public health objectives and the effective protection of privacy? How does the GDPR deal with data that concern children's health and academic research? By analysing a number of diverse questions concerning big health data under the GDPR from various perspectives, this book will appeal to those interested in privacy, data protection, big data, health sciences, information technology, the GDPR, EU and human rights law. **Boys What It Means to Become a Man** Seal Press A vital and sweeping examination of today's "boy crisis," demonstrating the ways in which we raise boys into a culture of toxic masculinity and offering solutions that can liberate us all Whether they're being urged to "man up" or warned that "boys don't cry," young men are subjected to damaging messages about manliness: they must muzzle their emotions and never show weakness, dominate girls and compete with one another. Boys: What It Means to Become a Man examines how these toxic rules can hinder boys' emotional and social development. If girls can expand the borders of femaleness, could boys also be set free of limiting, damaging expectations about manhood and masculinity? Could what's been labelled "the boy crisis" be the beginning of a revolution in how we raise young men? Drawing on extensive research and interviews with educators, activists, parents, psychologists, sociologists, and young men, Giese--mother to a son herself--examines the myths of masculinity and the challenges facing boys today. She reports from boys-only

sex education classes and recreational sports leagues; talks to parents of transgender children and plays video games with her son. She tells stories of boys navigating the transition into manhood and how the upheaval in cultural norms about sex, sexuality and the myths of masculinity have changed the coming of age process for today's boys. With lively reportage and clear-eyed analysis, Giese reveals that the movement for gender equality has the potential to liberate us all.

Redeeming REDD Policies, Incentives and Social Feasibility for Avoided Deforestation Routledge It is now well accepted that deforestation is a key source of greenhouse gas emissions and of climate change, with forests representing major sinks for carbon. As a result, public and private initiatives for reducing emissions from deforestation and forest degradation (REDD) have been widely endorsed by policy-makers. A key issue is the feasibility of carbon trading or other incentives to encourage land-owners and indigenous people, particularly in developing tropical countries, to conserve forests, rather than to cut them down for agricultural or other development purposes. This book presents a major critique of the aims and policies of REDD as currently structured, particularly in terms of their social feasibility. It is shown how the claims to be able to reduce greenhouse gas emissions as well as enhance people's livelihoods and biodiversity conservation are unrealistic. There is a naive assumption that technical or economic fixes are sufficient for success. However, the social and governance aspects of REDD, and its enhanced version known as REDD+, are shown to be implausible. Instead to enhance REDD's prospects, the author provides a roadmap for developing a new social contract that puts people first.

Undergraduate Research Experiences for STEM Students Successes, Challenges, and Opportunities National Academies Press Undergraduate research has a rich history, and many practicing researchers point to undergraduate research experiences (UREs) as crucial to their own career success. There are many ongoing efforts to improve undergraduate science, technology, engineering, and mathematics (STEM) education that focus on increasing the active engagement of students and decreasing traditional lecture-based teaching, and UREs have been proposed as a solution to these efforts and may be a key strategy for broadening participation in STEM. In light of the proposals questions have been asked about what is known about student participation in UREs, best practices in UREs design, and evidence of beneficial outcomes from UREs. Undergraduate Research Experiences for STEM Students provides a comprehensive overview of and insights about the current and rapidly evolving types of UREs, in an effort to improve understanding of the complexity of UREs in terms of their content, their surrounding context, the diversity of the student participants, and the opportunities for learning provided by a research experience. This study analyzes UREs by considering them as part of a learning system that is shaped by forces related to national policy, institutional leadership, and departmental culture, as well as by the interactions among faculty, other mentors, and students. The report provides a set of questions to be considered by those implementing UREs as well as an agenda for future research that can help answer questions about how UREs work and which aspects of the experiences are most powerful.

Health Communication Theory, Method, and Application Routledge Health Communication provides coverage of the major areas of interest in the field of health communication, including interpersonal, organizational, and health media. It takes an in-

depth approach to health communication research by analyzing and critically evaluating research conducted across multiple paradigmatic perspectives. This edited textbook includes chapters covering such topics as: interpersonal health communication issues, challenges, and complexities in health communication, communication aspects of health behaviors and conditions, organizational issues in health communication, and media and eHealth research. Chapters have been contributed by noted researchers and educators in health communication and represent the current state of the field. They offer pedagogical features that will prove useful to students and instructors of health communication, such as sidebars, summary boxes, suggestions for in-class activities, discussion questions, and lists of additional resources. A companion website provides online resources for use with this text, including: For students: Test questions Downloadable flash cards Exam study guides For instructors: PowerPoint slides Sample syllabi Sample assignments Developed for use in upper-level health communication courses, this text represents the breadth and depth of health communication theory and research as it exists today. **The Fourth Industrial Revolution** Currency Between the 18th and 19th centuries, Britain experienced massive leaps in technological, scientific, and economical advancement **Causes, Impacts and Solutions to Global Warming** Springer Science & Business Media **Global Warming: Causes, Impacts and Solutions** covers all aspects of global warming including its causes, impacts, and engineering solutions. Energy and environment policies and strategies are scientifically discussed to expose the best ways to reduce global warming effects and protect the environment and energy sources affected by human activities. The importance of green energy consumption on the reduction of global warming, energy saving and energy security are also discussed. This book also focuses on energy management and conservation strategies for better utilization of energy sources and technologies in buildings and industry as well as ways of improving energy efficiency at the end use, and introduces basic methods for designing and sizing cost-effective systems and determining whether it is economically efficient to invest in specific energy efficiency or renewable energy projects, and describes energy audit producers commonly used to improve the energy efficiency of residential and commercial buildings as well as industrial facilities. These features and more provide the tools necessary to reduce global warming and to improve energy management leading to higher energy efficiencies. In order to reduce the negative effects of global warming due to excessive use of fossil fuel technologies, the following alternative technologies are introduced from the engineering perspective: fuel cells, solar power generation technologies, energy recovery technologies, hydrogen energy technologies, wind energy technologies, geothermal energy technologies, and biomass energy technologies. These technologies are presented in detail and modeling studies including case studies can also be found in this book. **Therapeutic, Probiotic, and Unconventional Foods** Academic Press **Therapeutic, Probiotic and Unconventional Foods** compiles the most recent, interesting and innovative research on unconventional and therapeutic foods, highlighting their role in improving health and life quality, their implications on safety, and their industrial and economic impact. The book focuses on probiotic foods, addressing the benefits and challenges associated with probiotic and prebiotic use. It then explores the most recently investigated and well-

recognized nutraceutical and medicinal foods and the food products and ingredients that have both an impact on human health and a potential therapeutic effect. The third and final section explores unconventional foods and discusses intriguing and debated foods and food sources. While research has been conducted on the beneficial biological effects of probiotics and therapeutic food, the use of these foods remains controversial. To overcome the suspicion of the use of alternative, homeopathic and traditional products as therapy, this book reveals and discusses the most recent and scientifically sound and confirmed aspects of the research. Compiles the most recent, interesting and innovative research on unconventional and therapeutic foods Highlights the role of unconventional and therapeutic foods in improving health and life quality Discusses the implications of unconventional and therapeutic foods on safety Presents the industrial and economic impact of unconventional and therapeutic foods