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EMERGING TECHNOLOGIES FOR STEAM EDUCATION

FULL STEAM AHEAD

Springer This theory-to-practice guide offers leading-edge ideas for wide-scale curriculum reform in sciences, technology, engineering, the arts, and mathematics--the STEAM subjects. Chapters emphasize the critical importance of current and emerging digital technologies in bringing STEM education up to speed and implementing changes to curricula at the classroom level. Of particular interest are the diverse ways of integrating the liberal arts into STEM course content in mutually reshaping humanities education and scientific education. This framework and its many instructive examples are geared to ensure that both educators and students can become innovative thinkers and effective problem-solvers in a knowledge-based society. Included in the coverage: Reconceptualizing a college science learning experience in the new digital era. Using mobile devices to support formal, informal, and semi-formal learning. Change of attitudes, self-concept, and team dynamics in engineering education. The language arts as foundational for science, technology, engineering, art, and mathematics. Can K-12 math teachers train students to make valid logical reasoning? Moving forward with STEAM education research. Emerging Technologies for STEAM Education equips educators, education researchers, administrators, and education policymakers with curricular and pedagogical strategies for making STEAM education the bedrock of accessible, relevant learning in keeping with today's digital advances.

ELECTRONIC COMMERCE

A MANAGERIAL AND SOCIAL NETWORKS PERSPECTIVE

Springer Throughout the book, theoretical foundations necessary for understanding Electronic Commerce (EC) are presented, ranging from consumer behavior to the economic theory of competition. Furthermore, this book presents the most current topics relating to EC as described by a diversified team of experts in a variety of fields, including a senior vice president of an e-commerce-related company. The authors provide website resources, numerous exercises, and extensive references to supplement the theoretical presentations. At the end of each chapter, a list of online resources with links to the websites is also provided. Additionally, extensive, vivid examples from large corporations, small businesses from different industries, and services, governments, and nonprofit agencies from all over the world make concepts come alive in Electronic Commerce. These examples, which were collected by both academicians and practitioners, show the reader the capabilities of EC, its cost and justification, and the innovative ways corporations are using EC in their operations. In this edition (previous editions published by Pearson/Prentice Hall), the authors bring forth the latest trends in e-commerce, including social businesses, social networking, social collaboration, innovations, and mobility.

GEORGETOWN JOURNAL OF INTERNATIONAL AFFAIRS

SUMMER/FALL 2014

Georgetown University Press According to the United Nations, 9.6 billion people will inhabit our planet by 2050. Population growth and movement will have an enormous impact on global dynamics in the twenty-first century, in both the developing world as well as in advanced industrialized societies. In light of this global demographic reality, this issue of the Georgetown Journal of International Affairs focuses on the topic of "Destabilizing Demographics," exploring the opportunities and challenges presented by dynamic population patterns and structures. Demographic shifts affect multiple facets of international affairs, impacting economies, modifying politics, and reshaping the fabric of our societies. These changes could have catastrophic international consequences if ignored or evaded. However, as this issue's Forum demonstrates, the future holds promise for those who choose to reorganize on the cusp of significant population transformation. Adaptation as a form of mitigation must be informed by diverse solutions and multi-sectoral cooperation. Consider, for example, the intersection of family planning and climate change, or the connection between gender gaps and crime. Through pragmatic policymaking and international collaboration, seismic demographic change may not necessitate disaster. We round out this issue with articles regarding decidedly twenty-first century concerns: communication, integration, and globalization. Moha Ennaji describes the challenges of Berber language incorporation in Morocco and its significance to democratic reform. Dan Saxon examines the role of human judgment in semi-autonomous weapons use, questioning the ethics of unmanned machines. Andrés Monroy-Hernández and Luis Daniel Palacios analyze the utility, efficacy, and implications of citizen journalism within Mexico's ongoing drug war. And Lawrence Gostin and Alexandra Phelan explore how, in an increasingly interconnected world, the international community can collectively prevent and control the spread of infectious diseases. The Georgetown Journal of International Affairs is the official publication of the Edmund A. Walsh School of Foreign Service at Georgetown University. Each issue of the journal provides readers with a diverse array of timely, peer-reviewed content penned by top policymakers, business leaders, and academic luminaries. The Journal takes a holistic approach to international affairs and features a 'Forum' that offers focused analysis on a specific key issue with each new edition of the publication, as well as nine regular sections: Books, Business & Economics, Conflict & Security, Culture & Society, Law & Ethics, A Look Back, Politics & Diplomacy, Science & Technology, and View from the Ground.

FAILING FAMILIES, FAILING SCIENCE

WORK-FAMILY CONFLICT IN ACADEMIC SCIENCE

NYU Press Work life in academia might sound like a dream: summers off, year-long sabbaticals, the opportunity to switch between classroom teaching and research. Yet, when it comes to the sciences, life at the top U.S. research universities is hardly idyllic. Based on surveys of over 2,000 junior and senior scientists, both male and female, as well as in-depth interviews, Failing Families, Failing Science examines how the rigors of a career in academic science makes it especially difficult to balance family and work. Ecklund and Lincoln paint a nuanced picture that illuminates how gender, individual choices, and university and science infrastructures all play a role in shaping science careers, and how science careers, in turn, shape family life. They argue that both men and women face difficulties, though differently, in managing career and family. While women are hit harder by the pressures of elite academic science, the institution of science—and academic science, in particular—is not accommodating, possibly not even compatible, for either women or men who want to raise families. Perhaps most importantly, their research reveals that early career academic scientists struggle considerably with balancing their work and family lives. This struggle may prevent these young scientists from pursuing positions at top research universities—or further pursuing academic science at all—a circumstance that comes at great cost to our national science infrastructure. In an era when advanced scientific research and education is more important than ever, Failing Families, Failing Science presents a compelling inside look at the world of the university scientists who make it possible—and what universities and national science bodies can do to make a difference in their lives.

COMMUNICATION TECHNOLOGY UPDATE AND FUNDAMENTALS

CRC Press A classic now in its 14th edition, Communication Technology Update and Fundamentals is the single best resource for students and professionals looking to brush up on how these technologies have developed, grown, and converged, as well as what's in store for the future. It begins by developing the communication technology framework—the history, ecosystem, and structure—then delves into each type of technology, including everything from mass media, to computers and consumer electronics, to networking

technologies. Each chapter is written by faculty and industry experts who provide snapshots of the state of each individual field, altogether providing a broad overview of the role communication technologies play in our everyday lives. Key features: Gives students and professionals the latest information in all areas of communication technology The companion website offers updated information and useful links to related industry resources, and an instructor site provides a sample syllabus and a test bank This edition features new chapters on automotive telematics, digital health, and telepresence, as well as expanded coverage of tablets/phablets and 4K (ultra high definition television)

TREND FOLLOWING

HOW TO MAKE A FORTUNE IN BULL, BEAR, AND BLACK SWAN MARKETS

[John Wiley & Sons](#) Want to take the financial journey to a new investing philosophy that might very well affect the rest of your moneymaking life? No one can guarantee the yellow brick road, but Michael Covel promises the red pill will leave you wide freaking awake. *Trend Following* reveals the truth about a trading strategy that makes money in up, down and surprise markets. By applying straightforward and repeatable rules, anyone can learn to make money in the markets whether bull, bear, or black swan—by following the trend to the end when it bends. In this timely reboot of his bestselling classic, Michael Covel dives headfirst into trend following strategy to examine the risks, benefits, people, and systems. You'll hear from traders who have made millions by following trends, and learn from their successes and mistakes—insights only here. You'll learn the trend philosophy, and how it has performed in booms, bubbles, panics and crashes. Using incontrovertible data and overwhelming supporting evidence, with a direct connection to the foundations of behavioral finance, Covel takes you inside the core principles of trend following and shows everyone, from brand new trader to professional, how alpha gets pulled from the market. Covel's newest edition has been revised and extended, with 7 brand new interviews and research proof from his one of kind network. This is trend following for today's generation. If you're looking to go beyond passive index funds and trusting the Fed, this cutting edge classic holds the keys to a weatherproof portfolio. Meet great trend followers learning their rules and philosophy of the game Examine data to see how trend following excels when the you-know-what hits the fan Understand trend trading, from behavioral economics to rules based decision-making to its lambasting of the efficient markets theory Compare trend trading systems to do it yourself or invest with a trend fund Trend following is not prediction, passive index investing, buy and hope or any form of fundamental analysis. It utilizes concrete rules, or heuristics, to profit from a behavioral perspective. Trend Following is clear-cut, straightforward and evidence-based and will secure your financial future in bull, bear and black swan markets. If you're finally ready to profit in the markets, Trend Following is the definitive treatise for a complex world in constant chaos.

FAKE SCIENCE

EXPOSING THE LEFT'S SKEWED STATISTICS, FUZZY FACTS, AND DODGY DATA

[Simon and Schuster](#) If you listen to any political argument, you're eventually bound to hear something like: "The science is settled on this." Or: "Just look at the statistics!" Or: "There have been studies that say..." You'd think we were living in the golden age of science and reason. But the truth is far more sinister, says Austin Ruse. We're actually living in the age of the low information voter, easily misled by all-too-convincing false statistics and studies. In *Fake Science*, Ruse debunks so-called "facts" used to advance political causes one after the other, revealing how poorly they stand up to actual science.

BRITISH WOMEN AND THE INTELLECTUAL WORLD IN THE LONG EIGHTEENTH CENTURY

[Routledge](#) Highlighting the remarkable women who found ways around the constraints placed on their intellectual growth, this collection of essays shows how their persistence opened up attributes of potent female imagination, radical endeavour, literary vigour, and self-education that compares well with male intellectual achievement in the long eighteenth century. Disseminating their knowledge through literary and documentary prose with unapologetic self-confidence, women such as Anna Barbauld, Anna Seward, Elizabeth Inchbald and Joanna Baillie usurped subjects perceived as masculine to contribute to scientific, political, philosophical and theological debate and progress. This multifaceted exploration goes beyond traditional readings of women's creativity to add fresh, at times controversial, insights into the female view of the intellectual world. Bringing together leading experts on British women's lives, work and writings, the volume seeks to rediscover women's appropriations of masculine disciplines and to examine their interventions into the intellectual world. Through their engagement with a unique perspective on women's lives and achievements, the essays make important contributions to the existing body of knowledge in this important area that will inform future scholarship.

TOWARDS A NEW PARADIGM FOR STATISTICAL EVIDENCE

[MDPI](#) Many scientists now widely agree that the current paradigm of statistical significance should be abandoned or largely modified. In response to these calls for change, a Special Issue of *Econometrics* (MDPI) has been proposed. This book is a collection of the articles that have been published in this Special Issue. These seven articles add new insights to the problem and propose new methods that lay a solid foundation for the new paradigm for statistical significance.

FUTURE SPACECRAFT PROPULSION SYSTEMS AND INTEGRATION

ENABLING TECHNOLOGIES FOR SPACE EXPLORATION

[Springer](#) The updated and expanded third edition of this book focuses on the multi-disciplinary coupling between flight-vehicle hardware alternatives and enabling propulsion systems. It discusses how to match near-term and far-term aerospace vehicles to missions and provides a comprehensive overview of the subject, directly contributing to the next-generation space infrastructure, from space tourism to space exploration. This holistic treatment defines a mission portfolio addressing near-term to long-term space transportation needs covering sub-orbital, orbital and escape flight profiles. In this context, a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access. A best-practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission. This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike.

HANDBOOK OF RESEARCH ON INTEGRATING SOCIAL MEDIA INTO STRATEGIC MARKETING

[IGI Global](#) To survive in today's competitive business environment, marketing professionals must look to develop innovative methods of reaching their customers and stakeholders. Web 2.0 provides a useful tool in developing the relationships between business and consumer. The *Handbook of Research on Integrating Social Media into Strategic Marketing* explores the use of social networking and other online media in marketing communications, including both best practices and common pitfalls to provide comprehensive coverage of the topic. This book is intended for marketing professionals, business managers, and anyone interested in how social media fits into today's marketing environments.

THE ROUTLEDGE RESEARCH COMPANION TO GEOGRAPHIES OF SEX AND SEXUALITIES

[Routledge](#) Comprehensive and authoritative, this state-of-the-art review both charts and develops the rich sub-discipline geographies of sexualities, exploring sex-gender, sexuality and sexual practices. Emerging from the desire to examine differences and exclusions as a key aspect of human geographies, these geographies have engaged with heterosexual and queer, lesbian, gay, bi and trans lives. Developing thinking in this area, geographers and other social scientists have illustrated the centrality of place, space and other spatial relationships in reconstituting sexual practices, representations, desires, as well as sexed bodies and lives. This book reviews the current state of the field and offers new insights from authors located on five continents. In doing so, the book seeks to draw on and influence core debates in this field, as well as disrupt the Anglo-American hegemony in studies of sexualities, sexes and geographies. This volume is the definitive collection in the area, bringing together many international leaders in the field, alongside scholars that are well-established outside the Anglophone academy, and many emerging talents who will lead the field in the decades to come.

KNOW YOUR WORLD: A GEOGRAPHER'S GUIDE TO THE ANTHROPOCENE AGE

[Lulu.com](#) Darwin named Geography as 'Queen of the sciences'. His observations of geographical connections had revealed the phenomenon of Life in a remarkably structured Earth-world as inter-locked dynamic systems. This 'Systems View of Life' is reviving at a time

when we are facing a crisis of collapse in world systems, and the prospect of a breaking world, as a result of reckless human activities driven by amoral values. We are all geographers, embarked on a voyage in search of the optimum location with the promise of support and betterment of our future living conditions. But, for most of the world's people, this is an experience of Life fraught with hardship and deprivation. Compelled to take stock of our deteriorating environment, as well as to question the values we hold, the message is that we have the collective restorative power of geographical knowledge which can be applied to achieve a better world.

RESEARCH AND APPLICATIONS IN GLOBAL SUPERCOMPUTING

[IGI Global](#) Rapidly generating and processing large amounts of data, supercomputers are currently at the leading edge of computing technologies. Supercomputers are employed in many different fields, establishing them as an integral part of the computational sciences. Research and Applications in Global Supercomputing investigates current and emerging research in the field, as well as the application of this technology to a variety of areas. Highlighting a broad range of concepts, this publication is a comprehensive reference source for professionals, researchers, students, and practitioners interested in the various topics pertaining to supercomputing and how this technology can be applied to solve problems in a multitude of disciplines.

THE METABOLIC PATHWAYS AND ENVIRONMENTAL CONTROLS OF HYDROCARBON BIODEGRADATION IN MARINE ECOSYSTEMS

[Frontiers Media SA](#) Biodegradation mediated by indigenous microbial communities is the ultimate fate of the majority of oil hydrocarbon that enters the marine environment. The aim of this Research Topic is to highlight recent advances in our knowledge of the pathways and controls of microbially-catalyzed hydrocarbon degradation in marine ecosystems, with emphasis on the response of microbial communities to the Deepwater Horizon oil spill in the Gulf of Mexico. In this Research Topic, we encouraged original research and reviews on the ecology of hydrocarbon-degrading bacteria, the rates and mechanisms of biodegradation, and the bioremediation of discharged oil under situ as well as near in situ conditions.

DIGITAL HEALTH

CRITICAL AND CROSS-DISCIPLINARY PERSPECTIVES

[Routledge](#) The rise of digital health technologies is, for some, a panacea to many of the medical and public health challenges we face today. This is the first book to articulate a critical response to the techno-utopian and entrepreneurial vision of the digital health phenomenon. Deborah Lupton, internationally renowned for her scholarship on the sociocultural and political aspects of medicine and health as well as digital technologies, addresses a range of compelling issues about the interests digital health represents, and its unintended effects on patients, doctors and how we conceive of public health and healthcare delivery. Bringing together social and cultural theory with empirical research, the book challenges apolitical approaches to examine the impact new technologies have on social justice, and the implication for social and economic inequalities. Lupton considers how self-tracking devices change the patient-doctor relationship, and how the digitisation and gamification of healthcare through apps and other software affects the way we perceive and respond to our bodies. She asks which commercial interests enable different groups to communicate more widely, and how the personal data generated from digital encounters are exploited. Considering the lived experience of digital health technologies, including their emotional and sensory dimensions, the book also assesses their broader impact on medical and public health knowledges, power relations and work practices. Relevant to students and researchers interested in medicine and public health across sociology, psychology, anthropology, new media and cultural studies, as well as policy makers and professionals in the field, this is a timely contribution on an important issue.

THE POLITICS OF ADAPTATION

MEDIA CONVERGENCE AND IDEOLOGY

[Springer](#) In the age of globalization, digitization, and media convergence, traditional hierarchies between media are breaking down. This book offers new approaches to understanding the politics and their underlying ideologies that are reshaping our global media landscape, including questions of audience participation and transmedia storytelling.

SPACE ETHICS

[Rowman & Littlefield](#) An introduction to the basic issues of space ethics: the technology, the impact on society, and the frontiers of thinking about space exploration from theory to practice.

GUIDE TO PROGRAMMING FOR THE DIGITAL HUMANITIES

LESSONS FOR INTRODUCTORY PYTHON

[Springer](#) As an introduction to programming for the Digital Humanities (DH), this book presents six key assignments oriented on DH topics. The topics include Computing Change Over Time (calculating burials at a historic cemetery), Visualizing Change Over Time (visualizing the burials at the historic cemetery), Textual Analysis (finding word frequencies and "stop words" in public domain texts), XML Transformation (transforming a simplified version of XML into HTML styled with CSS), Stylometry (comparing the measured features of graphic images), and Social Network Analysis (analyzing extended relationships in historic circles). The book focuses on the practical application of these assignments in the classroom, providing a range of variations for each assignment, which can be selected on the basis of students' specific programming background and skills; "atomic" assignments, which can be used to give students the experience they need to successfully complete the main assignments; and some common pitfalls and gotchas to manage in the classroom. The book's chief goals are to introduce novice computer science (CS) students to programming for DH, and to offer them valuable hands-on experience with core programming concepts.

IAN MCHARG AND THE SEARCH FOR IDEAL ORDER

[Routledge](#) Ian McHarg and the Search for Ideal Order looks at the well-known and studied landscape architect, Ian McHarg, in a new light. The author explores McHarg's formative years, and investigates how his ideas developed in both their complexity and scale. As a precursor to McHarg's approach in his influential book Design with Nature, this book offers new interpretations into his search for environmental order and outlines how his struggle to understand humanity's relationship to the environment in an era of rapid social and technological change reflects an ongoing challenge that landscape design has yet to fully resolve. This book will be of great interest to academics and researchers in landscape architectural history.

UNDERSTANDING ANESTHETIC EQUIPMENT & PROCEDURES

A PRACTICAL APPROACH

[Jaypee Brothers Medical Publishers](#)

JOURNAL OF ECONOMIC LITERATURE

CULTURAL NETWORKS IN MIGRATING HERITAGE

INTERSECTING THEORIES AND PRACTICES ACROSS EUROPE

Routledge This book is a study of the role of cultural and heritage networks and how they can help institutions and their host societies manage the tensions and realise the opportunities arising from migration. In looking at past and emerging challenges of social inclusion and cultural dialogue, hybrid models of cultural identity, citizenship and national belonging, the study also sets out to answer the questions 'how'. How can cultural institutions leverage the power of cross-border networks in a contested place such as Europe today? How could they elaborate approaches and strategies based on cultural practices? How can the actions of the European Commission and relevant cultural bodies be strengthened, adapted or extended to meet these goals? Cultural Networks in Migrating Heritage will be of interest to scholars and students in museum and cultural heritage studies, visual arts, sociology of organisations and information studies. It will also be relevant to practitioners and policymakers from museums, libraries, NGOs and cultural institutions at large.

HAYES' PRINCIPLES AND METHODS OF TOXICOLOGY

CRC Press Hayes' Principles and Methods of Toxicology has long been established as a reliable reference to the concepts, methodologies, and assessments integral to toxicology. The new sixth edition has been revised and updated while maintaining the same high standards that have made this volume a benchmark resource in the field. With new authors and new chap

INTRODUCTION TO URBAN SCIENCE

EVIDENCE AND THEORY OF CITIES AS COMPLEX SYSTEMS

MIT Press A novel, integrative approach to cities as complex adaptive systems, applicable to issues ranging from innovation to economic prosperity to settlement patterns. Human beings around the world increasingly live in urban environments. In Introduction to Urban Science, Luis Bettencourt takes a novel, integrative approach to understanding cities as complex adaptive systems, claiming that they require us to frame the field of urban science in a way that goes beyond existing theory in such traditional disciplines as sociology, geography, and economics. He explores the processes facilitated by and, in many cases, unleashed for the first time by urban life through the lenses of social heterogeneity, complex networks, scaling, circular causality, and information. Though the idea that cities are complex adaptive systems has become mainstream, until now those who study cities have lacked a comprehensive theoretical framework for understanding cities and urbanization, for generating useful and falsifiable predictions, and for constructing a solid body of empirical evidence so that the discipline of urban science can continue to develop. Bettencourt applies his framework to such issues as innovation and development across scales, human reasoning and strategic decision-making, patterns of settlement and mobility and their influence on socioeconomic life and resource use, inequality and inequity, biodiversity, and the challenges of sustainable development in both high- and low-income nations. It is crucial, says Bettencourt, to realize that cities are not "zero-sum games" and that knowledge, human cooperation, and collective action can build a better future.

HANDBOOK OF RESEARCH ON EDUCATIONAL DESIGN AND CLOUD COMPUTING IN MODERN CLASSROOM SETTINGS

IGI Global In the digital age, the integration of technology has become a ubiquitous aspect of modern society. These advancements have significantly enhanced the field of education, allowing students to receive a better learning experience. The Handbook of Research on Educational Design and Cloud Computing in Modern Classroom Settings is a pivotal reference source for the latest research findings on the strategic role of cloud computing in education, teaching, and the learning process. Featuring extensive coverage on relevant areas such as personal learning environment, cloud-based learning, and educational models, this publication is an ideal resource for educators, professionals, school administrators, researchers, and practitioners in the field of education.

RESEARCH ANTHOLOGY ON ARCHITECTURES, FRAMEWORKS, AND INTEGRATION STRATEGIES FOR DISTRIBUTED AND CLOUD COMPUTING

IGI Global Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

INEQUALITY AND THE 1%

Verso Books Can we afford the rich? Why the growth of the wealthy is making the UK a more dangerous place to live. Since the great recession hit in 2008, the 1% has only grown richer while the rest find life increasingly tough. The gap between the haves and the have-nots has turned into a chasm. While the rich have found new ways of protecting their wealth, everyone else has suffered the penalties of austerity. But inequality is more than just economics. Being born outside the 1% has a dramatic impact on a person's potential: reducing life expectancy, limiting education and work prospects, and even affecting mental health. What is to be done? In Inequality and the 1% leading social thinker Danny Dorling lays bare the extent and true cost of the division in our society and asks what have the super-rich ever done for us. He shows that inequality is the greatest threat we face and why we must urgently redress the balance.

ADVANCES IN HUMAN ASPECTS OF TRANSPORTATION: PART I

AHFE International (USA) Human Factors and Ergonomics have made a considerable contribution to the research, design, development, operation and analysis of transportation systems which includes road and rail vehicles and their complementary infrastructure, aviation and maritime transportation. This book presents recent advances in the Human Factors aspects of Transportation. These advances include accident analysis, automation of vehicles, comfort, distraction of drivers (understanding of distraction and how to avoid it), environmental concerns, in-vehicle systems design, intelligent transport systems, methodological developments, new systems and technology, observational and case studies, safety, situation awareness, skill development and training, warnings and workload. This book brings together the most recent human factors work in the transportation domain, including empirical research, human performance and other types of modeling, analysis, and development. The issues facing engineers, scientists, and other practitioners of human factors in transportation research are becoming more challenging and more critical. The common theme across these sections is that they deal with the intersection of the human and the system. Moreover, many of the chapter topics cross section boundaries, for instance by focusing on function allocation in NextGen or on the safety benefits of a tower controller tool. This is in keeping with the systemic nature of the problems facing human factors experts in rail and road, aviation and maritime research- it is becoming increasingly important to view problems not as isolated issues that can be extracted from the system environment, but as embedded issues that can only be understood as a part of an overall system.

THE INTERNATIONAL JOURNAL OF INDIAN PSYCHOLOGY, VOLUME 3, ISSUE 4, NO. 67

Lulu & RED'SHINE Publication, Inc

PROLIFERATION OF WEAPONS- AND DUAL-USE TECHNOLOGIES

DIPLOMATIC, INFORMATION, MILITARY, AND ECONOMIC APPROACHES

Springer Nature This book explores and analyzes the rapid pace of technological evolution in diplomatic, information, military, and economic sectors, which has contributed to a dynamic international policy environment. Global political stability is greatly influenced by

innovations originating from numerous sources, including university labs, the technology sector, and military research. Collectively, these innovations guide the movement of people, ideas, and technology that in turn affect the international balance of power. The objective of this volume is to develop new insights into how the proliferation of innovative ideas, low-cost weapons, and dual-use technologies impact the changing global security landscape. Innovative and dual-use technologies can be used for beneficial purposes or defensive purposes. Alternatively they may be appropriated or employed for nefarious purposes by hostile military powers and non-state actors alike. Such actions can threaten global security and stability. As the complexity of technological innovations continues to increase, existing control mechanisms such as international regulations and security arrangements may be insufficient to stem the tide of proliferation over time. As such, this work seeks to assess and present policy solutions to curtail the threat to global stability posed by the proliferation of weapons and dual-use technology.

HIV AND BREASTFEEDING

THE UNTOLD STORY

[Pinter & Martin](#) In the early 1980s it was discovered that HIV, the virus that causes AIDS, could be passed through a mother's milk to her baby. Almost overnight in the industrialised countries, and later in the African countries most ravaged by HIV, breastfeeding became an endangered practice. But in the rush to reduce transmission of HIV, everything we already knew about breastfeeding's life-saving effects was overlooked, with devastating consequences for mothers and babies. In *HIV and Breastfeeding: the untold story*, former IBCLC Pamela Morrison, an acknowledged authority on HIV and breastfeeding, reveals how women in the world's most poverty-stricken areas were persuaded to abandon breastfeeding as part of a short-sighted and deadly policy that led to a humanitarian disaster. The dilemma that breastfeeding, an act of nurturing which confers food, comfort and love, could be at once life-saving yet lethal, has been called 'the ultimate paradox'. This critical account reveals how vital breastfeeding is, even in the most difficult of circumstances, and examines the lessons that can be learned from the mistakes of the past - which is particularly relevant as we deal with the consequences for mothers and babies of another global pandemic, Covid-19. With detailed information for HIV-positive mothers and their caregivers, and success stories from mothers themselves, this book is essential reading for anyone involved in protecting and supporting breastfeeding, or with a need for evidence-based information about breastfeeding and HIV.

THE IMPORTANCE OF IRON IN PATHOPHYSIOLOGIC CONDITIONS

[Frontiers Media SA](#) The iron element (Fe) is strictly required for the survival of most forms of life, including bacteria, plants and humans. Fine-tuned regulatory mechanisms for Fe absorption, mobilization and recycling operate to maintain Fe homeostasis, the disruption of which leads to Fe overload or Fe depletion. Whereas the deleterious effect of Fe deficiency relies on reduced oxygen transport and diminished activity of Fe-dependent enzymes, the cytotoxicity induced by Fe overload is due to the ability of this metal to act as a pro-oxidant and catalyze the formation of highly reactive hydroxyl radicals via the Fenton chemistry. This results in unfettered oxidative stress generation that, by inducing protein, lipid and DNA oxidation, leads to Fe-mediated programmed cell death and organ dysfunction. Major and systemic Fe overloads occurring in hemochromatosis and Fe-loading anemias have been extensively studied. However, localized tissue Fe overload was recently associated to a variety of pathologies, such as infection, inflammation, cancer, cardiovascular and neurodegenerative disorders. In keeping with the existence of cross-regulatory interactions between Fe homeostasis and the pathophysiology of these diseases, further investigations on the mechanisms that provide cellular and systemic adaptation to tissue Fe overload are instrumental for future therapeutic approaches. Thus, we encourage our colleagues to submit original research papers, reviews, perspectives, methods and technology reports to contribute their findings to a current state of the art on a comprehensive overview of the importance of iron metabolism in pathophysiologic conditions.

SCIENTIFIC AMERICAN

PAEDIATRIC NURSING IN AUSTRALIA

PRINCIPLES FOR PRACTICE

[Cambridge University Press](#) The second edition of *Paediatric Nursing in Australia: Principles for Practice* brings the important care of the child and young person to life, by equipping students with essential knowledge and skills to become informed and capable partners in the nursing care of children, young people and their families across a variety of clinical and community settings. The text develops students' critical thinking and problem-solving skills by exploring contemporary issues impacting on the health of children, young people and their families. This new edition features the latest research and case studies, coupled with reflection points and learning activities in each chapter. Further resources, including links to video and web content, multiple-choice questions and critical-thinking problems, are available on the updated instructor companion website at www.cambridge.edu.au/academic/paediatricnursing. Written by a team of experienced nurses within the field, *Paediatric Nursing in Australia: Principles for Practice*, 2nd edition is grounded in current care delivery and is an essential resource in preparing future nurses for practice in paediatric settings throughout Australia.

THE STUDY OF SCIENCE AND RELIGION

SOCIOLOGICAL, THEOLOGICAL, AND PHILOSOPHICAL PERSPECTIVES

[Wipf and Stock Publishers](#) The main aim of this book is to contribute to the relationship between science and religion. This book aims to do constructive theological work out of a particular cultural context. The point of departure is contemporary Swedish religion and worldviews. One focus is the process of biologization (i.e., how the worldviews of the general public in Sweden are shaped by biological science). Is there a gap between Swedes in general and the perceptions of Swedish clergy? The answer is based on sociological studies on science and religion in Sweden and the United States. Furthermore, the book contains a study of Swedish theologians, from Nathan Soderblom to the present Archbishop Antje Jackelen, and their shifting understanding of the relation between science and religion. The philosophical aspects of this relation are given special consideration. What models of the relation inform the contemporary scholarly discussion? Are science and religion in conflict, separate, or in mutual creative interaction?

TECHNICAL QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE DRILLING PLATFORMS

[Petrogav International](#) This book offers you a brief, but very involved look into the operations in the drilling of an oil & gas wells that will help you to be prepared for job interview at oil & gas companies. From start to finish, you'll see a general prognosis of the drilling process. If you are new to the oil & gas industry, you'll enjoy having a leg up with the knowledge of these processes. If you are a seasoned oil & gas person, you'll enjoy reading what you may or may not know in these pages. This course provides a non-technical overview of the phases, operations and terminology used on offshore drilling platforms. It is intended also for non-drilling personnel who work in the offshore drilling, exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of drilling operations, with a particular focus on the unique aspects of offshore operations.

QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE OIL & GAS RIGS

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