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Thinking about Deterrence Air Univeristy Press 2014-09-01 With many scholars and analysts questioning the relevance of deterrence as a valid strategic concept, this volume moves beyond Cold War nuclear deterrence to show the many ways in which deterrence is applicable to contemporary security. It examines the possibility of applying deterrence theory and practice to space, to cyberspace, and against non-state actors. It also examines the role of nuclear deterrence in the twenty-first century and reaches surprising conclusions.

Biodiversity and Climate Change Thomas E. Lovejoy 2019-01-01 An essential, up-to-date look at the critical interactions between biological diversity and climate change that will serve as an immediate call to action The physical and biological impacts of climate change are dramatic and broad-ranging. People who care about the planet and manage natural resources urgently need a synthesis of our rapidly growing understanding of these issues. In this all-new sequel to the 2005 volume Climate Change and Biodiversity, leading experts in the field summarize observed changes, assess what the future holds, and offer suggested responses. From extinction risk to ocean acidification, from the future of the Amazon to changes in ecosystem services, and from geoengineering to the power of ecosystem restoration, this book captures the sweep of climate change transformation of the biosphere.

Genetic Algorithms in Search, Optimization, and Machine Learning David Edward Goldberg 1989 A gentle introduction to genetic algorithms. Genetic algorithms revisited: mathematical foundations. Computer implementation of a genetic algorithm. Some applications of genetic algorithms. Advanced operators and techniques in genetic search. Introduction to genetics-based machine learning.

Applications of genetics-based machine learning. A look back, a glance ahead. A review of combinatorics and elementary probability. Pascal with random number generation for fortran, basic, and cobol programmers. A simple genetic algorithm (SGA) in pascal. A simple classifier system(SCS) in pascal. Partition coefficient transforms for problem-coding analysis.

Robot Teams Tucker Balch 2002-04-17 This is a comprehensive volume on robot teams that will be the standard reference on multi-robot systems. The volume provides not only the essentials of multi-agent robotics theory but also descriptions of exemplary implemented systems demonstrating the key concepts of multi-robot research. Information is presented in a descriptive manner and augme

Quantile Regression Roger Koenker 2005-05-05 Quantile regression is gradually emerging as a unified statistical methodology for estimating models of conditional quantile functions. By complementing the exclusive focus of classical least squares regression on the conditional mean, quantile regression offers a systematic strategy for examining how covariates influence the location, scale and shape of the entire response distribution. This monograph is the first comprehensive treatment of the subject, encompassing models that are linear and nonlinear, parametric and nonparametric. The author has devoted more than 25 years of research to this topic. The methods in the analysis are illustrated with a variety of applications from economics, biology, ecology and finance. The treatment will find its core audiences in econometrics, statistics, and applied mathematics in addition to the disciplines cited above.

The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies Erik Brynjolfsson 2014-01-20 A pair of technology experts describe how humans will have to keep pace with machines in order to become prosperous in the future and identify strategies and policies for business and individuals to use to combine digital processing power with human ingenuity.

Automation in Garment Manufacturing Rajkishore Nayak 2017-11-10 Automation in Garment Manufacturing provides systematic and comprehensive insights into this multifaceted process. Chapters cover the role of automation in design and product development, including color matching, fabric inspection, 3D body scanning, computer-aided design and prototyping. Part Two covers automation in garment production, from handling, spreading and cutting, through to finishing and pressing techniques. Final chapters discuss advanced tools for assessing productivity in manufacturing, logistics and supply-chain management. This book is a key resource for all those engaged in textile and apparel development and production, and is also ideal for academics engaged in research on textile science and technology. Delivers theoretical and practical guidance on automated processes that benefit anyone developing or manufacturing textile products Offers a range of perspectives on manufacturing from an international team of authors Provides systematic and comprehensive coverage of the topic, from fabric construction, through product development, to current and potential applications

Informatics in Control Automation and Robotics Juan Andrade Cetto 2011-03-15 The present book includes a set of selected papers from the fourth "International Conference on Informatics in Control Automation and Robotics" (ICINCO 2009), held in Milan, Italy, from 2 to 5 July 2009. The conference was organized in three simultaneous tracks: "Intelligent Control Systems and Optimization", "Robotics and Automation" and "Systems Modeling, Signal Processing and Control". The book is based on the same structure. ICINCO received 365 paper submissions, not including those of workshops, from 55 countries, in all continents. After a double blind paper review performed by the Program Committee only 34 submissions were accepted as full papers and thus selected for oral presentation, leading

to a full paper acceptance ratio of 9%. Additional papers were accepted as short papers and posters. A further refinement was made after the conference, based also on the assessment of presentation quality, so that this book includes the extended and revised versions of the very best papers of ICINCO 2009. Commitment to high quality standards is a major concern of ICINCO that will be maintained in the next editions of this conference, including not only the stringent paper acceptance ratios but also the quality of the program committee, keynote lectures, workshops and logistics.

**Holistic Darwinism Peter Corning 2010-08-15** In recent years, evolutionary theorists have come to recognize that the reductionist, individualist, gene-centered approach to evolution cannot sufficiently account for the emergence of complex biological systems over time. Peter A. Corning has been at the forefront of a new generation of complexity theorists who have been working to reshape the foundations of evolutionary theory. Well known for his Synergism Hypothesis—a theory of complexity in evolution that assigns a key causal role to various forms of functional synergy—Corning puts this theory into a much broader framework in *Holistic Darwinism*, addressing many of the issues and concepts associated with the evolution of complex systems. Corning's paradigm embraces and integrates many related theoretical developments of recent years, from multilevel selection theory to niche construction theory, gene-culture coevolution theory, and theories of self-organization. Offering new approaches to thermodynamics, information theory, and economic analysis, Corning suggests how all of these domains can be brought firmly within what he characterizes as a post-neo-Darwinian evolutionary synthesis.

**The White Man's Burden William Easterly 2006** Argues that western foreign aid efforts have done little to stem global poverty, citing how such organizations as the International Monetary Fund and the World Bank are not held accountable for ineffective practices that the author believes intrude into the inner workings of other countries. By the author of *The Elusive Quest for Growth*. 60,000 first printing.

**Advances in Tourism, Technology and Systems António Abreu 2020-11-19** This book features a collection of high-quality research papers presented at the International Conference on Tourism, Technology & Systems (ICOTTS 2020), held at the University of Cartagena, in Cartagena de Indias, Colombia, from 29th to 31st October 2020. The book is divided into two volumes, and it covers the areas of technology in tourism and the tourist experience, generations and technology in tourism, digital marketing applied to tourism and travel, mobile technologies applied to sustainable tourism, information technologies in tourism, digital transformation of tourism business, e-tourism and tourism 2.0, big data and management for travel and tourism, geotagging and tourist mobility, smart destinations, robotics in tourism, and information systems and technologies.

**The Methodologies of Art Laurie Schneider Adams 2018-03-09** Since the nineteenth century, when art history became an established academic discipline, works of art have been 'read' in a variety of ways. These different ways of describing and interpreting art are the methodologies of artistic analysis, the divining rods of meaning. Regardless of a work's perceived difficulty, an art object is, in theory, complex. Every work of art is an expression of its culture (time and place) and its maker (the artist) and is dependent on its media (what it's made of). The methodologies discussed here (formal analysis, iconology and iconography, Marxism, feminism, biography and autobiography, psychoanalysis, structuralism, race and gender) reflect the multiplicity of meanings in an artistic image. The second edition includes nineteen new images, new sections on race, gender, orientalism, and colonialism, and a new epilogue that analyzes a

single painting to illustrate the different methodological viewpoints.

International Conference on Innovative Computing and Communications Deepak Gupta 2020-07-30 This book includes high-quality research papers presented at the Third International Conference on Innovative Computing and Communication (ICICC 2020), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 21–23 February, 2020. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

From Pleasure Machines to Moral Communities Geoffrey M. Hodgson 2013 Are humans at their core seekers of their own pleasure or cooperative members of society? Paradoxically, they are both. Pleasure-seeking can take place only within the context of what works within a defined community, and central to any community are the evolved codes and principles guiding appropriate behavior, or morality. The complex interaction of morality and self-interest is at the heart of Geoffrey M. Hodgson's approach to evolutionary economics, which is designed to bring about a better understanding of human behavior. In *From Pleasure Machines to Moral Communities*, Hodgson casts a critical eye on neoclassical individualism, its foundations and flaws, and turns to recent insights from research on the evolutionary bases of human behavior. He focuses his attention on the evolution of morality, its meaning, why it came about, and how it influences human attitudes and behavior. This more nuanced understanding sets the stage for a fascinating investigation of its implications on a range of pressing issues drawn from diverse environments, including the business world and crucial policy realms like health care and ecology. This book provides a valuable complement to Hodgson's earlier work with Thorbjørn Knudsen on evolutionary economics in *Darwin's Conjecture*, extending the evolutionary outlook to include moral and policy-related issues.

Social Computing and Social Media. Participation, User Experience, Consumer Experience, and Applications of Social Computing Gabriele Meiselwitz 2020-07-10 This two-volume set LNCS 12194 and 12195 constitutes the refereed proceedings of the 12th International Conference on Social Computing and Social Media, SCSM 2020, held as part of the 22nd International Conference, HCI International 2020, which was planned to be held in Copenhagen, Denmark, in July 2020. The conference was held virtually due to the COVID-19 pandemic. The total of 1439 papers and 238 posters have been accepted for publication in the HCII 2020 proceedings from a total of 6326 submissions. SCSM 2020 includes a total of 93 papers which are organized in topical sections named: Design Issues in Social Computing, Ethics and Misinformation in Social Media, User Behavior and Social Network Analysis, Participation and Collaboration in Online Communities, Social Computing and User Experience, Social Media Marketing and Consumer Experience, Social Computing for Well-Being, Learning, and Entertainment.

The Mathematics of the Uncertain Eduardo Gil 2018-02-28 This book is a tribute to Professor Pedro Gil, who created the Department of Statistics, OR and TM at the University of Oviedo, and a former President of the Spanish Society of Statistics and OR (SEIO). In more than eighty original contributions, it illustrates the extent to which Mathematics can help manage uncertainty, a factor that is inherent to real life. Today it goes without saying that, in order to model experiments and systems and to analyze related outcomes and data, it is necessary to consider formal ideas and develop scientific approaches and techniques for dealing with uncertainty. Mathematics is crucial

in this endeavor, as this book demonstrates. As Professor Pedro Gil highlighted twenty years ago, there are several well-known mathematical branches for this purpose, including Mathematics of chance (Probability and Statistics), Mathematics of communication (Information Theory), and Mathematics of imprecision (Fuzzy Sets Theory and others). These branches often intertwine, since different sources of uncertainty can coexist, and they are not exhaustive. While most of the papers presented here address the three aforementioned fields, some hail from other Mathematical disciplines such as Operations Research; others, in turn, put the spotlight on real-world studies and applications. The intended audience of this book is mainly statisticians, mathematicians and computer scientists, but practitioners in these areas will certainly also find the book a very interesting read.

Decoding the City Dietmar Offenhuber 2014-09-05 The MIT based SENSEable City Lab under Carlo Ratti is one of the research centers that deal with the flow of people and goods, but also of refuse that moves around the world. Experience with large-scale infrastructure projects suggest that more complex and above all flexible answers must be sought to questions of transportation or disposal. This edition, edited by Dietmar Offenhuber and Carlo Ratti, shows how Big Data change reality and, hence, the way we deal with the city. It discusses the impact of real-time data on architecture and urban planning, using examples developed in the SENSEable City Lab. They demonstrate how the Lab interprets digital data as material that can be used for the formulation of a different urban future. It also looks at the negative aspects of the city-related data acquisition and control. The authors address issues with which urban planning disciplines will work intensively in the future: questions that not only radically and critically review, but also change fundamentally, the existing tasks and how the professions view their own roles.

The Political Economy of Democracy and Tyranny Norman Schofield 2009 One theme that has emerged from the recent literature on political economy concerns the transition to democracy: why would dominant elites give up oligarchic power? This book addresses the fundamental question of democratic stability and the collapse of tyranny by considering a formal model of democracy and tyranny. The formal model is used to study elections in developed polities such as the United States, the United Kingdom, the Netherlands, Canada, and Israel, as well as complex developing polities such as Turkey. The key idea is that activist groups may offer resources to political candidates if they in turn adjust their polities in favor of the interest group. In polities that use a "first past the post" electoral system, such as the US, the bargaining between interest groups and candidates creates a tendency for activist groups to coalesce; in polities such as Israel and the Netherlands, where the electoral system is very proportional, there may be little tendency for activist coalescence. A further feature of the model is that candidates, or political leaders, like Barack Obama, with high intrinsic charisma, or valence, will be attracted to the electoral center, while less charismatic leaders will move to the electoral periphery. This aspect of the model is used to compare the position taking and exercise of power of authoritarian leaders in Portugal, Argentina and the Soviet Union. The final chapter of the book suggests that the chaos that may be induced by climate change and rapid population growth can only be addressed by concerted action directed by a charismatic leader of the Atlantic democracies.

Aging, Technology and Health Richard Pak 2018-03-15 Aging, Health and Technology takes a problem-centered approach to examine how older adults use technology for health. It examines the many ways in which technology is being used by older adults, focusing on challenges, solutions and perspectives of the older user. Using aging-health technology as a lens, the book examines issues of technology adoption, basic human factors, cognitive aging, mental health, aging and usability, privacy, trust and automation. Each

chapter takes a case study approach to summarize lessons learned from unique examples that can be applied to similar projects, while also providing general information about older adults and technology. Discusses human factors design challenges specific to older adults Covers the wide range of health-related uses for technology—from fitness to leading a more engaged life Utilizes a case study approach for practical application Envisions what the future will hold for technology and older adults Employs a roster of interdisciplinary contributors

Applications of Networks, Sensors and Autonomous Systems Analytics Jyotsna Kumar Mandal 2021-11-27 This book presents high-quality research papers presented at International Conference on Applications of Networks, Sensors and Autonomous Systems Analytics (ICANSAA 2020), held during December, 11 – 12, 2020, at JIS College of Engineering, Kalyani, West Bengal, India. The major topics covered are cyber-physical systems and sensor networks, data analytics and autonomous systems and MEMS and NEMS with applications in biomedical devices. It includes novel and innovative work from experts, practitioners, scientists, and decision-makers from academia and industry.

Computer Information Systems and Industrial Management Khalid Saeed 2013-09-20 This book constitutes the proceedings of the 12th IFIP TC 8 International Conference, CISIM 2013, held in Cracow, Poland, in September 2013. The 44 papers presented in this volume were carefully reviewed and selected from over 60 submissions. They are organized in topical sections on biometric and biomedical applications; pattern recognition and image processing; various aspects of computer security, networking, algorithms, and industrial applications. The book also contains full papers of a keynote speech and the invited talk.

Causes of War Jack S. Levy 2011-09-15 Written by leading scholars in the field, Causes of War provides the first comprehensive analysis of the leading theories relating to the origins of both interstate and civil wars. Utilizes historical examples to illustrate individual theories throughout Includes an analysis of theories of civil wars as well as interstate wars -- one of the only texts to do both Written by two former International Studies Association Presidents

Molecular Biology of Cancer Lauren Pecorino 2012-04-26 Demonstrating how the malfunction of normal molecular pathways and components can lead to cancer, this text explores how our understanding of these defective mechanisms can be harnessed to develop new targeted therapeutic agents.

Wearable Robots José L. Pons 2008-04-15 A wearable robot is a mechatronic system that is designed around the shape and function of the human body, with segments and joints corresponding to those of the person it is externally coupled with. Teleoperation and power amplification were the first applications, but after recent technological advances the range of application fields has widened. Increasing recognition from the scientific community means that this technology is now employed in telemanipulation, man-amplification, neuromotor control research and rehabilitation, and to assist with impaired human motor control. Logical in structure and original in its global orientation, this volume gives a full overview of wearable robotics, providing the reader with a complete understanding of the key applications and technologies suitable for its development. The main topics are demonstrated through two detailed case studies; one on a lower limb active orthosis for a human leg, and one on a wearable robot that suppresses upper limb tremor. These examples highlight the difficulties and potentialities in this area of technology, illustrating how design decisions should be made based on these. As well as discussing the cognitive interaction between human and robot, this comprehensive text also covers: the mechanics of the wearable

robot and its biomechanical interaction with the user, including state-of-the-art technologies that enable sensory and motor interaction between human (biological) and wearable artificial (mechatronic) systems; the basis for bioinspiration and biomimeticism, general rules for the development of biologically-inspired designs, and how these could serve recursively as biological models to explain biological systems; the study on the development of networks for wearable robotics. *Wearable Robotics: Biomechatronic Exoskeletons* will appeal to lecturers, senior undergraduate students, postgraduates and other researchers of medical, electrical and bio engineering who are interested in the area of assistive robotics. Active system developers in this sector of the engineering industry will also find it an informative and welcome resource.

*Personalized Anaesthesia* Pedro L. Gambús 2020-01-31 Presents a modern vision of anaesthesia, integrating technology and knowledge, to change how anaesthesia is taught and practised.

Intelligent Human Computer Interaction Madhusudan Singh 2021-02-05 The two-volume set LNCS 12615 + 12616 constitutes the refereed proceedings of the 12th International Conference on Intelligent Human Computer Interaction, IHCI 2020, which took place in Daegu, South Korea, during November 24-26, 2020. The 75 full and 18 short papers included in these proceedings were carefully reviewed and selected from a total of 185 submissions. The papers were organized in topical sections named: cognitive modeling and systems; biomedical signal processing and complex problem solving; natural language, speech, voice and study; algorithms and related applications; crowd sourcing and information analysis; intelligent usability and test system; assistive living; image processing and deep learning; and human-centered AI applications.

*Management of Treatment-Resistant Major Psychiatric Disorders* Charles B. Nemeroff 2012-06-05 A sizable percentage of patients with major psychiatric disorders do not respond to the first or second treatments they receive. This book summarizes the latest evidence from clinical studies concerning the treatment of patients with treatment-resistant psychiatric disorders. Both pharmacological and psychotherapeutic interventions are included, as well as somatic non-pharmacological treatments. The chapter authors represent the leaders in their respective fields.

*Towards a New Enlightenment?* Michelle Baddeley 2019-04-24 Addresses key issues in understanding the decade 2008-2018 and its impact on the societies of the future. Brings together the articles B28of twenty-two prestigious international experts in different fields of thought. Through an informative approach, the essays form a transversal view of today's thinking. This is the tenth title of the Open Mind essay collection published by BBVA.A27.0We are living through years of great importance, marked by the unstoppable evolution of technology, science and the information society. This book brings together twenty-two essays written by prestigious researchers from the world's leading universities on areas as diverse as crucial to our future: climate change, artificial intelligence, economics, cyber-security and geopolitics, democracy, anthropology, new media, astrophysics and cosmology, nanotechnology, biomedicine, globalisation, gender theory and the cities of the future.

*Book of Abstracts of the 70th Annual Meeting of the European Federation of Animal Science Scientific Committee* 2019-08-26 This Book of Abstracts is the main publication of the 70th Annual Meeting of the European Federation of Animal Science (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's eleven Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse

Production and Livestock Farming Systems, Insects and Precision Livestock Farming.

Multiple Heterogeneous Unmanned Aerial Vehicles Aníbal Ollero 2007-10-25 Complete with online files and updates, this cutting-edge text looks at the next generation of unmanned flying machines. Aerial robots can be considered as an evolution of the Unmanned Aerial Vehicles (UAVs). This book provides a complete overview of all the issues related to aerial robotics, addressing problems ranging from flight control to terrain perception and mission planning and execution. The major challenges and potentials of heterogeneous UAVs are comprehensively explored.

Leadership and Nursing Care Management - E-Book Diane Huber 2013-08-07 Comprehensive and easy to read, this authoritative resource features the most up-to-date, research-based blend of practice and theory related to the issues that impact nursing management and leadership today. Key topics include the nursing professional's role in law and ethics, staffing and scheduling, delegation, cultural considerations, care management, human resources, outcomes management, safe work environments, preventing employee injury, and time and stress management. Research Notes in each chapter summarize relevant nursing leadership and management studies and show how research findings can be applied in practice. Leadership and Management Behavior boxes in each chapter highlight the performance and conduct expected of nurse leaders, managers, and executives. Leading and Managing Defined boxes in each chapter list key terminology related to leadership and management, and their definitions. Case Studies at the end of each chapter present real-world leadership and management situations and illustrate how key chapter concepts can be applied to actual practice. Critical Thinking Questions at the end of each chapter present clinical situations followed by critical thinking questions that allow you to reflect on chapter content, critically analyze the information, and apply it to the situation. A new Patient Acuity chapter uses evidence-based tools to discuss how patient acuity measurement can be done in ways that are specific to nursing. A reader-friendly format breaks key content into easy-to-scan bulleted lists. Chapters are divided according to the AONE competencies for nurse leaders, managers, and executives. Practical Tips boxes highlight useful strategies for applying leadership and management skills to practice.

Intelligent Human Computer Interaction Uma Shanker Tiwary 2020-04-11 This volume constitutes the proceedings of the 11th International Conference on Intelligent Human Computer Interaction, IHCI 2019, held in Allahabad, India, in December 2019. The 25 full papers presented in this volume were carefully reviewed and selected from 73 submissions. The papers are grouped in the following topics: EEG and other biological signal based interactions; natural language, speech and dialogue processing; vision based interactions; assistive living and rehabilitation; and applications of HCI.

Cinesonidos Jacqueline Avila 2019-09-16 During Mexico's silent (1896-1930) and early sound (1931-52) periods, cinema saw the development of five significant genres: the prostitute melodrama (including the cabaretera subgenre), the indigenista film (on indigenous themes or topics), the cine de añoranza porfiriana (films of Porfirian nostalgia), the Revolution film, and the comedia ranchera (ranch comedy). In this book, author Jacqueline Avila looks at examples from all genres, exploring the ways that the popular, regional, and orchestral music in these films contributed to the creation of tropes and archetypes now central to Mexican cultural nationalism.

Integrating primary source material--including newspaper articles, advertisements, films--with film music studies, sound studies, and Mexican film and cultural history, Avila examines how these tropes and archetypes mirrored changing perceptions of mexicanidad manufactured by the State and popular and transnational culture. As she shows, several social and political agencies were heavily

invested in creating a unified national identity in an attempt to merge the previously fragmented populace as a result of the Revolution. The commercial medium of film became an important tool to acquaint a diverse urban audience with the nuances of Mexican national identity, and music played an essential and persuasive role in the process. In this heterogeneous environment, cinema and its music continuously reshaped the contested, fluctuating space of Mexican identity, functioning both as a sign and symptom of social and political change.

Cybernetic Revolutionaries Eden Medina 2014-01-10 A historical study of Chile's twin experiments with cybernetics and socialism, and what they tell us about the relationship of technology and politics. In *Cybernetic Revolutionaries*, Eden Medina tells the history of two intersecting utopian visions, one political and one technological. The first was Chile's experiment with peaceful socialist change under Salvador Allende; the second was the simultaneous attempt to build a computer system that would manage Chile's economy. Neither vision was fully realized—Allende's government ended with a violent military coup; the system, known as Project Cybersyn, was never completely implemented—but they hold lessons for today about the relationship between technology and politics. Drawing on extensive archival material and interviews, Medina examines the cybernetic system envisioned by the Chilean government—which was to feature holistic system design, decentralized management, human-computer interaction, a national telex network, near real-time control of the growing industrial sector, and modeling the behavior of dynamic systems. She also describes, and documents with photographs, the network's Star Trek-like operations room, which featured swivel chairs with armrest control panels, a wall of screens displaying data, and flashing red lights to indicate economic emergencies. Studying project Cybersyn today helps us understand not only the technological ambitions of a government in the midst of political change but also the limitations of the Chilean revolution. This history further shows how human attempts to combine the political and the technological with the goal of creating a more just society can open new technological, intellectual, and political possibilities. Technologies, Medina writes, are historical texts; when we read them we are reading history.

Nanostructures and Nanomaterials Guozhong Cao 2011 This text focuses on the synthesis, properties and applications of nanostructures and nanomaterials, particularly inorganic nanomaterials. It provides coverage of the fundamentals and processing techniques with regard to synthesis, properties, characterization and applications of nanostructures and nanomaterials.

Deterrence Now Patrick M. Morgan 2003-04-17 Patrick Morgan's authoritative study revisits the place of deterrence after the Cold War.

Strategic Latency Unleashed Zachary Davis 2021-01-30 The world is being transformed physically and politically. Technology is the handmaiden of much of this change. But since the current sweep of global change is transforming the face of warfare, Special Operations Forces (SOF) must adapt to these circumstances. Fortunately, adaptation is in the SOF DNA. This book examines the changes affecting SOF and offers possible solutions to the complexities that are challenging many long-held assumptions. The chapters explore what has changed, what stays the same, and what it all means for U.S. SOF. The authors are a mix of leading experts in technology, business, policy, intelligence, and geopolitics, partnered with experienced special operators who either cowrote the chapters or reviewed them to ensure accuracy and relevance for SOF. Our goal is to provide insights into the changes around us and generate ideas about how SOF can adapt and succeed in the emerging operational environment.

Smart Cities and Construction Technologies Sara Shirowzhan 2020-05-13 This book includes nine chapters presenting the outcome of

research projects relevant to building, cities, and construction. A description of a smart city and the journey from conventional to smart cities is discussed at the beginning of the book. Innovative case studies of underground cities and floating city bridges are presented in this book. BIM and GIS applications on different projects, and the concept of intelligent contract and virtual reality are discussed. Two concepts relevant to conventional buildings including private open spaces and place attachments are also included, and these topics can be upgraded in the future by smart technologies.

Advances in Simulation and Digital Human Modeling Julia L. Wright 2021-06-26 This book provides readers with a timely snapshot of modeling and simulation tools, including virtual and mixed-reality environment, for human factors research. It covers applications in healthcare and physical ergonomics, military and transportation systems, industrial monitoring, as well as economics and social sciences. Based on the AHFE 2021 International Conference on Human Factors and Simulation and the AHFE 2021 International Conference on Digital Human Modeling and Applied Optimization, held virtually on 25–29 July, 2021, from USA, the book offers a unique resource for modelling and simulation researchers seeking insights into human factors research and to human factors experts seeking reliable computational tools.

Niedermeyer's Electroencephalography Donald L. Schomer 2012-10-18 The leading reference on electroencephalography since 1982, Niedermeyer's Electroencephalography is now in its thoroughly updated Sixth Edition. An international group of experts provides comprehensive coverage of the neurophysiologic and technical aspects of EEG, evoked potentials, and magnetoencephalography, as well as the clinical applications of these studies in neonates, infants, children, adults, and older adults. This edition's new lead editor, Donald Schomer, MD, has updated the technical information and added a major new chapter on artifacts. Other highlights include complete coverage of EEG in the intensive care unit and new chapters on integrating other recording devices with EEG; transcranial electrical and magnetic stimulation; EEG/TMS in evaluation of cognitive and mood disorders; and sleep in premature infants, children and adolescents, and the elderly. A companion website includes fully searchable text and image bank.