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KEY=SCIENCES - GORDON DRAKE

30 Years Of Bes Physics - Proceedings Of The Symposium On 30 Years Of Bes Physics

World Scientific **BES, the Beijing Spectrometer, began its first groundbreaking physics run, thirty years ago, in 1989. This is the first high energy physics experiment in China, and has been unique throughout the world for its thorough and extended coverage of the tau and charm energy region. Since then, the BES detector has undergone steady improvements, upgrading to BESII in 1998 and to BESIII in 2008. Over the same period, the collaboration has expanded from 150 members, across 10 institutions in China and the United States, to about 500 members, across 72 institutions and 15 countries. The physics program, too, has extended from light hadron spectroscopy, tau, and charm physics to the discovery of exotic charmonium-like states, precision tests of the Standard Model of particle physics, and searches for new physics beyond the Standard Model. This special volume collects the proceedings of the symposium held at the Institute of High Energy Physics, Beijing, in celebration of the 30-year span of achievements and progress at the BES,**

BESII, and BESIII experiments. Written by many leaders of the BES collaborations, these proceedings document the early days of the BES experiments, important milestones, and the future physics program at BESIII.

This Changes Everything

Capitalism vs. The Climate

Simon and Schuster **The most important book yet from the author of the international bestseller *The Shock Doctrine*, a brilliant explanation of why the climate crisis challenges us to abandon the core “free market” ideology of our time, restructure the global economy, and remake our political systems. In short, either we embrace radical change ourselves or radical changes will be visited upon our physical world. The status quo is no longer an option. In *This Changes Everything* Naomi Klein argues that climate change isn’t just another issue to be neatly filed between taxes and health care. It’s an alarm that calls us to fix an economic system that is already failing us in many ways. Klein meticulously builds the case for how massively reducing our greenhouse emissions is our best chance to simultaneously reduce gaping inequalities, re-imagine our broken democracies, and rebuild our gutted local economies. She exposes the ideological desperation of the climate-change deniers, the messianic delusions of the would-be geoengineers, and the tragic defeatism of too many mainstream green initiatives. And she demonstrates precisely why the market has not—and cannot—fix the climate crisis but will instead make things worse, with ever more extreme and ecologically damaging extraction methods, accompanied by rampant disaster capitalism. Klein argues that the changes to our relationship with nature and one another that are required to respond to the climate crisis humanely should not be viewed as grim penance, but rather as a kind of gift—a catalyst to transform broken economic and cultural priorities and to heal long-festering historical wounds. And she documents the inspiring movements that have already begun this process: communities that are not just refusing to be sites of further fossil fuel extraction but are building the next, regeneration-based economies right now. Can we pull off these changes in time? Nothing is certain. Nothing except that climate change changes everything. And for a very brief time, the nature of that change is still up to us.**

Federal Register

Breakout

Pioneers of the Future, Prison Guards of the Past, and the Epic Battle That Will Decide America's Fate

Simon and Schuster **It is not between the Left and the Right, but between the past and the future. America is on the edge of a breakout. In fact, we are poised for one of the most spectacular leaps in human well-being in history. Pioneers of the future—innovators and entrepreneurs—are achieving breakthroughs in medicine, transportation, energy, education, and other fields that will make the world a dramatically different and better place. Unless the “prison guards” of the past stop them. Every American must choose a side. Will you be a champion of the future or a prisoner of the past? Every potential breakthrough has to get past a host of individuals and institutions whose power and comfort depend on the status quo. These prison guards of the past will strangle every innovation that threatens to change the way things have always been done—if we let them.**

Medical Data Privacy Handbook

Springer **This handbook covers Electronic Medical Record (EMR) systems, which enable the storage, management, and sharing of massive amounts of demographic, diagnosis, medication, and genomic information. It presents privacy-preserving methods for medical data, ranging from laboratory test results to doctors' comments. The reuse of EMR data can greatly benefit medical science and practice, but must be performed in a privacy-preserving way according to data sharing policies and regulations. Written by world-renowned leaders in this field, each chapter offers a survey of a research direction or a solution to problems in established and emerging research areas. The authors explore scenarios and techniques for facilitating the anonymization of different types of medical data, as well as various data**

mining tasks. Other chapters present methods for emerging data privacy applications and medical text de-identification, including detailed surveys of deployed systems. A part of the book is devoted to legislative and policy issues, reporting on the US and EU privacy legislation and the cost of privacy breaches in the healthcare domain. This reference is intended for professionals, researchers and advanced-level students interested in safeguarding medical data.

Managing Water and Agroecosystems for Food Security

CABI Water protection, food production and ecosystem health are worldwide issues. Changes in the global water cycle are affecting human well-being in many places, while widespread land and ecosystem degradation, driven by poor agricultural practices, is seriously limiting food production. Understanding the links between ecosystems, water, and food production is important to the health of all three, and sustainably managing these connections is becoming increasingly necessary. This book shows how sustainable ecosystems, especially agroecosystems, are essential for water management and food production.

You Are Here

From the Compass to GPS, the History and Future of How We Find Ourselves

Basic Books The story of the rise of modern navigation technology, from radio location to GPS—and the consequent decline of privacy What does it mean to never get lost? *You Are Here* examines the rise of our technologically aided era of navigational omniscience—or how we came to know exactly where we are at all times. In a sweeping history of the development of location technology in the past century, Bray shows how radio signals created to carry telegraph messages were transformed into invisible beacons to guide ships and how a set of rapidly-spinning wheels steered submarines beneath the polar icecap. But while most of these technologies were developed for and by the military, they are now ubiquitous in our everyday lives. Our phones are now smart enough to pinpoint our presence to within a

few feet—and nosy enough to share that information with governments and corporations. Filled with tales of scientists and astronauts, inventors and entrepreneurs, *You Are Here* tells the story of how humankind ingeniously solved one of its oldest and toughest problems—only to herald a new era in which it's impossible to hide.

Technical questions and answers for job interview Offshore Oil & Gas Rigs

Petrogav International The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 218 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

Spacecraft Dynamics and Control

The Embedded Model Control Approach

Butterworth-Heinemann **Spacecraft Dynamics and Control: The Embedded Model Control Approach** provides a uniform and systematic way of approaching space engineering control problems from the standpoint of model-based control, using state-space equations as the key paradigm for simulation, design and implementation. The book introduces the Embedded Model Control methodology for the design and implementation of attitude and orbit control systems. The logic architecture is organized around the embedded model of the spacecraft and its surrounding environment. The model is compelled to include disturbance dynamics as a repository of the uncertainty that the control law must reject to meet attitude and orbit requirements within the uncertainty class. The source of the real-time uncertainty

estimation/prediction is the model error signal, as it encodes the residual discrepancies between spacecraft measurements and model output. The embedded model and the uncertainty estimation feedback (noise estimator in the book) constitute the state predictor feeding the control law. Asymptotic pole placement (exploiting the asymptotes of closed-loop transfer functions) is the way to design and tune feedback loops around the embedded model (state predictor, control law, reference generator). The design versus the uncertainty class is driven by analytic stability and performance inequalities. The method is applied to several attitude and orbit control problems. The book begins with an extensive introduction to attitude geometry and algebra and ends with the core themes: state-space dynamics and Embedded Model Control. Fundamentals of orbit, attitude and environment dynamics are treated giving emphasis to state-space formulation, disturbance dynamics, state feedback and prediction, closed-loop stability. Sensors and actuators are treated giving emphasis to their dynamics and modelling of measurement errors. Numerical tables are included and their data employed for numerical simulations. Orbit and attitude control problems of the European GOCE mission are the inspiration of numerical exercises and simulations. The suite of the attitude control modes of a GOCE-like mission is designed and simulated around the so-called mission state predictor. Solved and unsolved exercises are included within the text - and not separated at the end of chapters - for better understanding, training and application. Simulated results and their graphical plots are developed through MATLAB/Simulink code.

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.

Questions and answers for job interview Offshore Oil & Gas Platforms

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Energy and Water Development Appropriations for 2016

Hearings Before a Subcommittee of the Committee on Appropriations, House of Representatives, One Hundred Fourteenth Congress, First Session

H.R. 4315, "21st Century Endangered Species Transparency Act"; H.R. 4316, "Endangered Species Recovery Transparency Act"; H.R. 4317, "State, Tribal, and Local Species Transparency and Recovery Act"; and H.R. 4318, "Endangered Species Litigation

Reasonableness Act"

Legislative Hearing Before the Committee on Natural Resources, U.S. House of Representatives, One Hundred Thirteenth Congress, Second Session, Tuesday, April 8, 2014

Telecommunications Research and Engineering at the Institute for Telecommunication Sciences of the Department of Commerce

Meeting the Nation's Telecommunications Needs

National Academies Press **The Department of Commerce operates two telecommunications research laboratories located at the Department of Commerce's Boulder, Colorado, campus: the National Telecommunications and Information Administration's (NTIA's) Institute for Telecommunications Sciences (ITS) and the National Institute of Standards and Technology's (NIST's) Communications Technology Laboratory (CTL). ITS serves as a principal federal resource for solving the telecommunications concerns of federal agencies, state and local governments, private corporations and associations, standards bodies, and international organizations. ITS could provide an essential service to the nation by**

being a principal provider of instrumentation and spectrum measurement services; however, the inter-related shortages of funding, staff, and a coherent strategy limits its ability to fully function as a research laboratory. This report examines the institute's performance, resources, and capabilities and the extent to which these meet customer needs. The Boulder telecommunications laboratories currently play an important role in the economic vitality of the country and can play an even greater role given the importance of access to spectrum and spectrum sharing to the wireless networking and mobile cellular industries. Research advances are needed to ensure the continued evolution and enhancement of the connected world the public has come to expect.

The Seven Sins of Wall Street

Big Banks, their Washington Lackeys, and the Next Financial Crisis

PublicAffairs We all know that the financial crisis of 2008 came dangerously close to pushing the United States and the world into a depression rivaling that of the 1930s. But what is astonishing -- and should make us not just afraid but very afraid -- are the shenanigans of the biggest banks since the crisis. Bob Ivry passionately, eloquently, and convincingly details the operatic ineptitude of America's best-compensated executives and the ways the government kowtows to what it mistakenly imagines is their competence and success. Ivry shows that the only thing that has changed since the meltdown is how too-big-to-fail banks and their fellow travelers in Washington have nudged us ever closer to an even bigger economic calamity. Informed by deep reporting from New York, Washington, and the heartland, *The Seven Sins of Wall Street*, like no other book, shows how we're all affected by the financial industry's inhumanity. The transgressions of "Wall Street titans" and "masters of the universe" are paid for by real people. In fierce, plain English, Ivry indicts a financial industry that continues to work for the few at the expense of the rest of us. Problems that financiers deemed too complicated to be understood by ordinary folks are shown by Ivry to be financial legerdemain -- a smokescreen of complexity and jargon that hide the bankers' nefarious activities. *The Seven Sins of Wall Street* is irreverent and timely, an infuriating black comedy. The Great Depression of the 1930s moved the American political system to real reform that kept the finance industry in check. With millions so deeply affected since

the crisis of 2008, you'll finish this book asking yourself how it is that so many of the nation's leading financial institutions remain such exasperating problem children.

Well Worth Saving

American Universities' Life-and-Death Decisions on Refugees from Nazi Europe

Yale University Press **A harrowing account of the profoundly consequential decisions American universities made about refugee scholars from Nazi-dominated Europe--a finalist for a 2020 National Jewish Book Award** The United States' role in saving Europe's intellectual elite from the Nazis is often told as a tale of triumph, which in many ways it was. America welcomed Albert Einstein and Enrico Fermi, Hannah Arendt and Herbert Marcuse, Rudolf Carnap and Richard Courant, among hundreds of other physicists, philosophers, mathematicians, historians, chemists, and linguists who transformed the American academy. Yet for every scholar who survived and thrived, many, many more did not. To be hired by an American university, a refugee scholar had to be world-class and well connected, not too old and not too young, not too right and not too left, and, most important, not too Jewish. Those who were unable to flee were left to face the horrors of the Holocaust. In this rigorously researched book, Laurel Leff rescues from obscurity scholars who were deemed "not worth saving" and tells the riveting, full story of the hiring decisions universities made during the Nazi era.

Technological Innovation in Legacy Sectors

Oxford University Press **The American economy faces two deep problems: expanding innovation and raising the rate of quality job creation. Both have roots in a neglected problem: the resistance of Legacy economic sectors to innovation. While the U.S. has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology, most of its economy is locked into Legacy sectors defended by technological/ economic/ political/ social paradigms that block competition from disruptive innovations that could challenge their models.**

Americans like to build technology "covered wagons" and take them "out west" to open new innovation frontiers; we don't head our wagons "back east" to bring innovation to our Legacy sectors. By failing to do so, the economy misses a major opportunity for innovation, which is the bedrock of U.S. competitiveness and its standard of living. **Technological Innovation in Legacy Sectors** uses a new, unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors: energy, air and auto transport, the electric power grid, buildings, manufacturing, agriculture, health care delivery and higher education, and develops approaches to understand and transform them. It finds both strengths and obstacles to innovation in the national innovation environments - a new concept that combines the innovation system and the broader innovation context - for a group of Asian and European economies. Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process. By increasingly offshoring production, the U.S. is losing important parts of its innovation capacity. "Innovate here, produce here," where the U.S. took all the gains of its strong innovation system at every stage, is being replaced by "innovate here, produce there," which threatens to lead to "produce there, innovate there." To bring innovation to Legacy sectors, authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation. They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations. In the specific case of advanced manufacturing, the production ecosystem can be recreated to reverse "jobless innovation" and add manufacturing-led innovation to the U.S.'s still-strong, research-oriented innovation system.

India and the Anglosphere

Race, Identity and Hierarchy in International Relations

Routledge India has become known in the US, the UK, Canada and Australia as 'the world's largest democracy', a 'natural ally', the 'democratic counterweight' to China and a trading partner of 'massive economic potential'. This new foreign policy orthodoxy assumes that India will join with these four states and act just as any other democracy would. A set of political and think tank elites has emerged which seek to advance the cause of a culturally superior, if ill-defined, 'Anglosphere'. Building on postcolonial and constructivist approaches to international relations, this book argues that the same Eurocentric assumptions about India pervade the foreign policies of the Anglosphere states,

international relations theory and the idea of the Anglosphere. The assertion of a shared cultural superiority has long guided the foreign policies of the US, the UK, Canada and Australia, and this has been central to these states' relationships with postcolonial India. This book details these difficulties through historical and contemporary case studies, which reveal the impossibility of drawing India into Anglosphere-type relationships. At the centre of India-Anglosphere relations, then, is not a shared resonance over liberal ideals, but a postcolonial clash over race, identity and hierarchy. A valuable contribution to the much-needed scholarly quest to follow a critical lens of inquiry into international relations, this book will be of interest to academics and advanced students in international relations, Indian foreign policy, Asian studies, and those interested in the 'Anglosphere' as a concept in international affairs.

Japan's Secret War

How Japan's Race to Build its Own Atomic Bomb Provided the Groundwork for North Korea's Nuclear Program

Permuted Press+ORM This groundbreaking investigation reveals how a secret atomic weapons program in WWII Japan led to today's North Korean security crisis. Japan's Secret War explores one of the least-known, yet highly significant episodes of World War II: Japan's frantic race to develop its own atomic bomb. Journalist and historian Robert Wilcox then shows how Japan's efforts evolved into North Korea's nuclear program and the looming threat it presents to mankind. After decades of research into national intelligence archives in the US and abroad, Wilcox presents a detailed account of Japan's version of the Manhattan Project. He traces its development from inception to the possible detonation of a nuclear device in 1945. Wilcox weaves a fascinating portrait of the secret industrial complex where Japan's atomic research culminated. And it is there that North Korea, following the Japanese defeat, salvaged what remained and fashioned its own nuclear program. "Japan's Secret War is still spellbinding. It is intriguing and disturbing, and Robert Wilcox deserves high praise for his meticulous research." —Historynet.com

The Greening of Asia

The Business Case for Solving Asia's Environmental Emergency

Columbia University Press **One of Asia's best-respected writers on business and economy, Hong Kong-based author Mark L. Clifford provides a behind-the-scenes look at what companies in China, India, Japan, Korea, the Philippines, Indonesia, Hong Kong, Singapore, and Thailand are doing to build businesses that will lessen the environmental impact of Asia's extraordinary economic growth. Dirty air, foul water, and hellishly overcrowded cities are threatening to choke the region's impressive prosperity. Recognizing a business opportunity in solving social problems, Asian businesses have developed innovative responses to the region's environmental crises. From solar and wind power technologies to green buildings, electric cars, water services, and sustainable tropical forestry, Asian corporations are upending old business models in their home countries and throughout the world. Companies have the money, the technology, and the people to act—yet, as Clifford emphasizes, support from the government (in the form of more effective, market-friendly policies) and the engagement of civil society are crucial for a region-wide shift to greener business practices. Clifford paints detailed profiles of what some of these companies are doing and includes a unique appendix that encapsulates the environmental business practices of more than fifty companies mentioned in the book.**

Telecommunications Research and Engineering at the Communications Technology Laboratory of the

Department of Commerce

Meeting the Nation's Telecommunications Needs

National Academies Press **The Department of Commerce operates two telecommunications research laboratories located at the Department of Commerce's Boulder, Colorado, campus: the National Telecommunications and Information Administration's (NTIA's) Institute for Telecommunications Sciences (ITS) and the National Institute of Standards and Technology's (NIST's) Communications Technology Laboratory (CTL). CTL develops appropriate measurements and standards to enable interoperable public safety communications, effective and efficient spectrum use and sharing, and advanced communication technologies. CTL is a newly organized laboratory within NIST, formed mid-2014. As it is new and its planned work represents a departure from that carried out by the elements of which it was composed, this study focuses on its available resources and future plans rather than past work. The Boulder telecommunications laboratories currently play an important role in the economic vitality of the country and can play an even greater role given the importance of access to spectrum and spectrum sharing to the wireless networking and mobile cellular industries. Research advances are needed to ensure the continued evolution and enhancement of the connected world the public has come to expect.**

Trade in Services and Trade Agreements

Perspectives from India and the European Union

SAGE Publications India **A comprehensive assessment of how trade complementarities and agreements help facilitate trade in services between India and the European Union A first of its kind, it addresses policy initiatives on services trade between two economies that are actively engaged in trade agreements. It establishes that the Broad Based Trade and Investment Agreement (BTIA), if signed, will be India's first agreement with a major advanced regional bloc and a major trading partner, and the EU's first agreement with a large emerging market. It is, therefore, likely to have a far-reaching impact on other large trading nations such as the United States and China. This book will be**

indispensable to scholars of international trade, international economics, macroeconomics, international relations as well as policy-makers, policy analysts and the informed general reader.

Indigenous Peoples' Governance of Land and Protected Territories in the Arctic

Springer This book addresses critical questions and analyses key issues regarding Indigenous/Aboriginal Peoples and governance of land and protected areas in the Arctic. It brings together contributions from scientists, indigenous and non-indigenous researchers, local leaders, and members of the policy community that: document Indigenous/Aboriginal approaches to governance of land and protected areas at the local, regional and international level; explore new territorial governance models that are emerging as part of the Indigenous/Aboriginal governance within Arctic States, provinces, territories and regions; analyse the recognition or lack thereof concerning indigenous rights to self-determination in the Arctic; and examine how traditional decision-making arrangements and practices can be linked with governments in the process of good governance. The book highlights essential lessons learned, success stories, and remaining issues, all of which are useful to address issues of Arctic governance of land and protected areas today, and which could also be relevant for future governance arrangements.

Scientists at War

Harvard University Press Sarah Bridger examines the ethical debates that tested the U.S. scientific community during the Cold War, and scientists' contributions to military technologies and strategic policymaking, from the dawning atomic age through the Strategic Defense Initiative (Star Wars) in the 1980s, which sparked cross-generational opposition among scientists.

Failed

What the "Experts" Got Wrong about the Global Economy

Oxford University Press **Why has the Eurozone ended up with an unemployment rate more than twice that of the United States more than six years after the collapse of Lehman Brothers? Why did the vast majority of low- and middle-income countries suffer a prolonged economic slowdown in the last two decades of the 20th century? What was the role of the International Monetary Fund in these economic failures? Why was Latin America able to achieve substantial poverty reduction in the 21st century after more than two decades without any progress? Failed** analyzes these questions, explaining why these important economic developments of recent years have been widely misunderstood and in some cases almost completely ignored. First, in the Eurozone, Mark Weisbrot argues that the European authorities' political agenda, which included shrinking the welfare state, reducing health care, pension, and other social spending, and reducing the bargaining power of labor played a very important role in prolonging the Eurozone's financial crisis and pushing it into years of recession and mass unemployment. This conclusion is based not only on public statements of European officials, but also on thousands of pages of documentation from consultations between the IMF and European governments after 2008. The second central theme of *Failed* is that there are always practical alternatives to prolonged economic failure. Drawing on the history of other financial crises, recessions, and recoveries, Weisbrot argues that regardless of initial conditions, there have been and remain economically feasible choices for governments of the Eurozone to greatly reduce unemployment—including the hardest hit, crisis-ridden country of Greece. The long-term economic failure of developing countries, its social consequences, as well as the subsequent recovery in the first decade of the 21st century, constitute the third part of the book's narrative, one that has previously gotten too little attention. We see why the International Monetary Fund has lost influence in middle income countries. *Failed* also examines the economic causes and consequences of Latin America's "second independence" and rebound in the twenty-first century, as well as the challenges that lie ahead.

Bulk Collection of Signals Intelligence

Technical Options

National Academies Press **The Bulk Collection of Signals Intelligence: Technical Options study is a result of an activity called for in Presidential Policy Directive 28 (PPD-28), issued by President Obama in January 2014, to evaluate U.S. signals intelligence practices. The directive instructed the Office of the Director of National Intelligence (ODNI) to produce a report within one year "assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection." ODNI asked the National Research Council (NRC) -- the operating arm of the National Academy of Sciences and National Academy of Engineering -- to conduct a study, which began in June 2014, to assist in preparing a response to the President. Over the ensuing months, a committee of experts appointed by the Research Council produced the report.**

Building Smarter Organizations

How to Lead Your Zombie Organization Back to Life

Elevate Publishing **Building Smarter Organizations is the antidote for your zombie organization. Building Smarter Organizations is an actionable survival guide for our complex, uncertain, and digital world. Slow-moving and uncoordinated zombie organizations can change. Utilizing the latest in industry research, Vala-Webb has assembled the complete anti-zombie kit to help you rebuild your organization so it can learn quickly, predict accurately, and execute on decisions effectively using: An "open" mindset that fosters innovation and employee engagement Fast-flow communications with visual work management Accelerated, collaborative decision making Don't keep stumbling and lurching around. Lead the change and equip your organization to thrive.**

The Global Politics of Science and Technology - Vol. 2

Perspectives, Cases and Methods

Springer An increasing number of scholars have begun to see science and technology as relevant issues in International Relations (IR), acknowledging the impact of material elements, technical instruments, and scientific practices on international security, statehood, and global governance. This two-volume collection brings the debate about science and technology to the center of International Relations. It shows how integrating science and technology translates into novel analytical frameworks, conceptual approaches and empirical puzzles, and thereby offers a state-of-the-art review of various methodological and theoretical ways in which sciences and technologies matter for the study of international affairs and world politics. The authors not only offer a set of practical examples of research frameworks for experts and students alike, but also propose a conceptual space for interdisciplinary learning in order to improve our understanding of the global politics of science and technology. The second volume raises a plethora of issue areas, actors, and cases under the umbrella notion techno-politics. Distinguishing between interactional and co-productive perspectives, it outlines a toolbox of analytical frameworks that transcend technological determinism and social constructivism.

AMA Manual of Style

A Guide for Authors and Editors

Oxford University Press The **AMA Manual of Style** is a must-have resource for anyone involved in medical, health, and scientific publishing. Written by an expert committee of JAMA Network editors, this latest edition addresses issues that face authors, editors, and publishers in the digital age. Extensive updates are included in the References chapter, with examples of how to cite digital publications, preprints, databases, data repositories, podcasts, apps and interactive games, and social media. Full-color examples grace the chapter on data display, with newer types of graphic presentations and updated guidance on formatting tables and figures. The manual thoroughly covers ethical and legal

issues such as authorship, conflicts of interest, scientific misconduct, intellectual property, open access and public access, and corrections. The Usage chapter has been revised to bring the manual up-to-date on word choice, especially in writing about individuals with diseases or conditions and from various socioeconomic, racial/ethnic, and sexual orientation populations. Specific nomenclature entries in many disciplines are presented to guide users in issues of diction, formatting, and preferred terminology. Guidance on numbers, SI units, and math has been updated, and the section on statistics and study design has undergone a major expansion. In sum, the answer to nearly any issue facing a writer or editor in medicine, health care, and related disciplines can be found in the 11th edition of the *AMA Manual of Style*. Available for institutional purchase or subscription or individual subscription. Visit AMAManualofStyle.com or contact your sales rep for more details.

Shared Governance for Sustainable Working Landscapes

CRC Press **Sustaining our agricultural landscapes is no longer just a technical, scientific or even political problem, but it has evolved into a socially complex, so-called wicked problem of conflicting social governance and economics. This creates an extreme economic obstacle where the value of ecosystem services remains low and diffuse and the transactions costs remain high and multiple. Using Uber-like business platform technology and a shared governance model, a symbiotic demand for environmental benefits is created. Enabling multi-sector transactions for environmental benefits, this platform innovation would remedy the "tragedy of the commons"; the economic nemesis to achieving landscape sustainability. In a nutshell, to sustain our agricultural landscapes a transdisciplinary approach supported by a shared governance model housed within a multi-sided platform is needed. This book introduces an assessment framework identifying governance actors, styles and ratios for socio-ecological systems. The assessment uses a new governance compass to identify the types of actors completing which tasks and identifies the styles of governance used to complete the tasks. It is aimed to anyone involved in sustainability science, agricultural policy planning, or integrated landscape design.**

Shaky Foundations

The Politics-Patronage-Social Science Nexus in Cold War America

Rutgers University Press Numerous popular and scholarly accounts have exposed the deep impact of patrons on the production of scientific knowledge and its applications. *Shaky Foundations* provides the first extensive examination of a new patronage system for the social sciences that emerged in the early Cold War years and took more definite shape during the 1950s and early 1960s, a period of enormous expansion in American social science. By focusing on the military, the Ford Foundation, and the National Science Foundation, Mark Solovey shows how this patronage system presented social scientists and other interested parties, including natural scientists and politicians, with new opportunities to work out the scientific identity, social implications, and public policy uses of academic social research. Solovey also examines significant criticisms of the new patronage system, which contributed to widespread efforts to rethink and reshape the politics-patronage-social science nexus starting in the mid-1960s. Based on extensive archival research, *Shaky Foundations* addresses fundamental questions about the intellectual foundations of the social sciences, their relationships with the natural sciences and the humanities, and the political and ideological import of academic social inquiry.

The Button

The New Nuclear Arms Race and Presidential Power from Truman to Trump

BenBella Books The President has the power to end the world in minutes. Right now, no one can stop him. Since the Truman administration, America has been one "push of a button" away from nuclear war—a decision that rests solely in the hands of the President. Without waiting for approval from Congress or even the Secretary of Defense, the President can unleash America's entire nuclear arsenal. Almost every governmental process is subject to institutional

checks and balances. Why is potential nuclear annihilation the exception to the rule? For decades, glitches and slip-ups have threatened to trigger nuclear winter: misinformation, false alarms, hacked warning systems, or even an unstable President. And a new nuclear arms race has begun, threatening us all. At the height of the Cold War, Russia and the United States each built up arsenals exceeding 30,000 nuclear weapons, armed and ready to destroy each other—despite the fact that just a few hundred are necessary to end life on earth. From authors William J. Perry, Secretary of Defense in the Clinton administration and Undersecretary of Defense for Research and Engineering in the Carter administration, and Tom Z. Collina, the Director of Policy at Ploughshares Fund, a global security foundation in Washington, DC, *The Button* recounts the terrifying history of nuclear launch authority, from the faulty 46-cent microchip that nearly caused World War III to President Trump's tweet about his "much bigger & more powerful" button. Perry and Collina share their firsthand experience on the front lines of the nation's nuclear history and provide illuminating interviews with former President Bill Clinton, former Secretary of Defense Jim Mattis, Congressman Adam Smith, Nobel Peace Prize winner Beatrice Fihn, senior Obama administration officials, and many others. Written in an accessible and authoritative voice, *The Button* reveals the shocking tales and sobering facts of nuclear executive authority throughout the atomic age, delivering a powerful condemnation against ever leaving explosive power this devastating under any one person's thumb.

Rachel Carson

A Literary Companion

McFarland Rachel Carson was a marine biologist credited with the founding of the ecology movement and the rise in ecofeminism. One of her most popular works was *Silent Spring*, which challenged the use of DDT (an insecticide infamous for its negative environmental effects) and questioned the claims of modern industry. Carson also wrote essays, reviews, articles, and more to educate the public about the impacts of chemical pollutants on both the environment and the human body. This literary companion provides readers with Carson's key messages via an A-to-Z index of topics discussed in her works including carcinogens, endangered species, and radioactivity.

Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions

National Academies Press **The Office of the Under Secretary of Defense (Personnel & Readiness), referred to throughout this report as P&R, is responsible for the total force management of all Department of Defense (DoD) components including the recruitment, readiness, and retention of personnel. Its work and policies are supported by a number of organizations both within DoD, including the Defense Manpower Data Center (DMDC), and externally, including the federally funded research and development centers (FFRDCs) that work for DoD. P&R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members' career satisfaction and their ability to meet new challenges. P&R must also address larger-scale questions, such as how the current realignment of forces to the Asia-Pacific area and other regions will affect recruitment, readiness, and retention. While DoD makes use of large-scale data and mathematical analysis in intelligence, surveillance, reconnaissance, and elsewhere—exploiting techniques such as complex network analysis, machine learning, streaming social media analysis, and anomaly detection—these skills and capabilities have not been applied as well to the personnel and readiness enterprise. Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P&R.**

Engineering Vulnerability In Pursuit of Climate Adaptation

Duke University Press **In Engineering Vulnerability Sarah E. Vaughn examines climate adaptation against the backdrop of ongoing processes of settler colonialism and the global climate change initiatives that seek to intervene in the lives of the world's most vulnerable. Her case study is Guyana in the aftermath of the 2005 catastrophic flooding that ravaged**

the country's Atlantic coastal plain. The country's ensuing engineering projects reveal the contingencies of climate adaptation and the capacity of flooding to shape Guyanese expectations about racial (in)equality. Analyzing the coproduction of race and vulnerability, Vaughn details why climate adaptation has implications for how we understand the past and the continued human settlement of a place. Such understandings become particularly apparent not only through experts' and ordinary citizens' disputes over resources but in their attention to the ethical practice of technoscience over time. Approaching climate adaptation this way, Vaughn exposes the generative openings as well as gaps in racial thinking for theorizing climate action, environmental justice, and, more broadly, future life on a warming planet. Duke University Press Scholars of Color First Book Award recipient

Aflatoxins

Finding solutions for improved food safety

Intl Food Policy Res Inst **Aflatoxins are a naturally occurring carcinogenic byproduct of common fungi on grains and other crops, particularly maize and groundnuts. They pose a significant public health risk in many tropical developing countries and are also a barrier to the growth of domestic and international commercial markets for food and feed. In recent years the aflatoxin problem has garnered greatly increased attention from both policy and donor communities around the globe. What can be done to reduce the detrimental impacts of aflatoxins? Because growth of the molds that produce aflatoxins is caused by multiple factors, and because they must be controlled along the entire value chain from production to consumption, only a robust multifaceted approach to controlling aflatoxins is likely to be effective. The nineteen briefs in this set thus provide different perspectives on aflatoxin risks and solutions. The analyses fall under four broad themes: (1) what is known about the health risks from aflatoxins; (2) how to overcome market constraints to improved aflatoxin control by building new market channels and incentives; (3) what is the international policy context for taking action in developing countries; and (4) what is the state of research on new aflatoxin control technologies, including new methods for aflatoxin detection, crop breeding, biological control, food storage and handling, and postharvest mitigation. These briefs collectively provide a much clearer picture of the state of current efforts at combatting aflatoxins. They also identify what gaps loom particularly large—including the need for country-specific risk analysis and for testing integrated solutions for the entire supply chain—in our global efforts to effectively**

reduce human exposure to aflatoxins and increase the economic returns to smallholders in agriculture.

Corporate Social Responsibility

Emerald Group Publishing **Volume Two of Business and Society 360** focuses on research drawn from work grounded in "corporate social responsibility" and "corporate citizenship."

Overcoming Barriers to Deployment of Plug-in Electric Vehicles

National Academies Press In the past few years, interest in plug-in electric vehicles (PEVs) has grown. Advances in battery and other technologies, new federal standards for carbon-dioxide emissions and fuel economy, state zero-emission-vehicle requirements, and the current administration's goal of putting millions of alternative-fuel vehicles on the road have all highlighted PEVs as a transportation alternative. Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles, such as lower operating costs, smoother operation, and better acceleration; the ability to fuel up at home; and zero tailpipe emissions when the vehicle operates solely on its battery. There are, however, barriers to PEV deployment, including the vehicle cost, the short all-electric driving range, the long battery charging time, uncertainties about battery life, the few choices of vehicle models, and the need for a charging infrastructure to support PEVs. What should industry do to improve the performance of PEVs and make them more attractive to consumers? At the request of Congress, *Overcoming Barriers to Deployment of Plug-in Electric Vehicles* identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these barriers. This report examines the characteristics and capabilities of electric vehicle technologies, such as cost, performance, range, safety, and durability, and assesses how these factors might create barriers to widespread deployment. *Overcoming Barriers to Deployment of Plug-in Electric Vehicles* provides an overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this promising technology for consumers. Through consideration of consumer behaviors, tax incentives, business models, incentive programs, and infrastructure needs, this book studies the state of the industry and makes recommendations to further its development and acceptance.

The Science of Armour Materials

Woodhead Publishing **The Science of Armour Materials** comprehensively covers the range of armor materials from steels and light alloys, through glasses and ceramics, to fibers, textiles, and protective apparel. The book also discusses aspects of analytical and numerical modeling, as well as laboratory-based high-strain rate testing and ballistic testing methodologies. Each chapter is written from an international perspective, including reviews of the current global literature, and incorporates case studies that focus upon real life applications, research outcomes, and lessons learned. The threat spectrum is restricted to small arms ammunition, high velocity fragments, and stab and spike attacks, as well as blast loadings. Features input from an editor who is an expert in his field: Dr. Ian Crouch, the author of over 80 publications in his field, with three patents to his name Provides systematic and comprehensive coverage of armor materials, modeling, and testing Offers a cross-disciplinary approach that brings together expertise in materials science and defense engineering Discusses aspects of analytical and numerical modeling, as well as laboratory-based high-strain rate testing and ballistic testing methodologies