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Antimicrobial peptides (AMPs) represent an ancient group of molecules with diverse functions in innate immunity. To date, more than 1000 naturally-occurring AMPs have been identified which display considerable diversity in their primary sequences, lengths, structures and biological activities. Despite this variability, AMPs are broadly classified according to homologous secondary structures as cathelicidins (linear  $\alpha$ -helical peptides), defensins ( $\beta$ -strand peptides connected by disulfide bonds) and bactenecins (loop peptides). Most, but not all, AMPs are cationic with amphipathic faces. These biochemical properties bestow many peptides with potent antimicrobial activity by facilitating interactions with negatively charged microbial cell membrane components, thereby increasing membrane permeability and resulting in microbial death. Other indirect effects on microbial physiology have been reported including inhibition of DNA/RNA synthesis, impaired protein synthesis and folding, disruption of cell wall formation and inhibition of microbial cell metabolism. Thus, with the spread of antibiotic-resistant microbial pathogens, AMPs have emerged as exciting candidates for next generation anti-infective therapies. However, recent studies suggest that AMPs have evolved other mechanisms of pathogen clearance. Immunomodulation is a novel approach to antimicrobial therapy that centres on boosting host immunity rather than direct microbial killing. This is also an attractive means to treat sepsis and other immune-mediated diseases. Whilst several cationic peptides are under investigation as antimicrobial agents, a select few show a remarkable ability to protect against lethal endotoxaemia and clinically-relevant bacterial infections including methicillin-resistant *Staphylococcus aureus* (MRSA). The molecular mechanisms responsible for this protection are only beginning to emerge but include prevention of innate cell activation by targeting key stages of bacterial endotoxin-mediated cell signalling. In this research topic, hosted by *Frontiers in Molecular Innate Immunity*, we aim to highlight key areas of AMP research including peptide diversity, structure-function relationships, antimicrobial activity and mechanisms of immune-modulation. We also aim to stimulate discussion on the emerging therapeutic potential of AMPs including antifungal, antiviral and anticancer applications. Today, more mediated information is available to more people than at any other time in human history. New and revitalized sense-making strategies multiply in response to the challenges of "cutting through the clutter" of competing narratives and taming the avalanche of information. Data miners, "sentiment analysts," and decision markets offer to help bodies of data "speak for themselves"—making sense of their own patterns so we don't have to. Neuromarketers and body language experts promise to peer behind people's words to see what their brains are really thinking and feeling. New forms of information processing promise to displace the need for expertise and even comprehension—at least for those with access to the data. Infoglut explores the connections between these wide-ranging sense-making strategies for an era of information overload and "big data," and the new forms of control they enable. Andrejevic critiques the popular embrace of deconstructive debunkery, calling into question the post-truth, post-narrative, and post-comprehension politics it underwrites, and tracing a way beyond them. This volume brings together the work of outstanding feminist scholars who reflect on the achievements of feminist political economy and the challenges it faces in the 21st century. The volume develops further some key areas of research in feminist political economy – understanding economies as gendered structures and economic crises as crises in social reproduction, as well as in finance and production; assessing economic policies through the lens of women's rights; analysing global transformations in women's work; making visible the unpaid economy in which care is provided for family and communities, and critiquing the ways in which policy makers are addressing ( or failing to address) this unpaid economy. In *Detention of Non-State Actors engaged in Hostilities: The Future Law* Rose and Oswald explore the armed forces' international legal obligations for management of detainees who are insurgents, saboteurs or terrorists in asymmetrical armed conflicts. These are just some of the questions to be addressed in this paper. We do not pretend to give the final and complete answers, as the field under study still has many grey areas and even some areas completely unexplored by scientific research. We aim to at least open the discussion on the subject of bioterrorism, without claiming to be the supreme authority in the field or the final voice. We do not even pretend that our work is relevant in terms of security solutions in such a complex and fluid security environment, where situations and states of affairs can change dramatically from year to year. However, our aim in this series of papers on bioterrorism is to clarify a number of notions, concepts and theoretical or practical issues necessary for the general public to understand what bioterrorism is all about and what we should expect in the coming years. At the time of writing, the COVID-19 crisis is still in full swing, despite some apparent improvements over the last few weeks. This may only be the beginning of a series of widening and deepening crises that are hitting human society, again and again confronting it with great existential questions. The current COVID-19 crisis is and will continue to be followed by severe economic and social impacts that are almost impossible to predict. Situations in which crises break out everywhere and in all sorts of ways, and situations in which the states of the world are gathering into increasingly isolated and hostile groups, are nothing other than the specific preconditions for the outbreak of world conflicts. We have no intention whatsoever of promoting defeatism or of creating and spreading alarmist rumours for who knows what obscure purposes. The situation is simply worrying, at times reaching alarming levels that go beyond mere fear of the future. The bioterrorist phenomenon is beginning to emerge more and more clearly as a concrete threat to the present and the near future. From this point of view, an effort will have to be made (or at least begun) to enlighten the general public on how this new threat could materialise. Authors C?lin Hideg Daniela Georgiana Golea From inside the book: "Since 1980, the economy has been growing, and productivity has been growing, but trickle-down values—that we, the American people promote, pursuant to the Republican Party's conservative ideology—have rigged the economy to continuously upwardly redistribute those revenues attributable to our increased productivity, yielding a productivity/wage disconnect, resulting in increased concentration of income and wealth at the top, in corporations and among older Americans (beneficiaries of income from Social Security, pensions and investments and continuing income due to delaying retirement), and the lowest percentage of GDP attributable to wages and highest attributable to profits since World War II. But trickle-down has not only distorted our economic thought; it has also distorted our political thought, our sociology and our concept of the rule of law. The result has been that the trickle-down policies promoted by the Republican Party are undermining our economy, democracy, institutions and health." For further discussion contact author at johnjseip@gmail.com. Focusing on Fritz Machlup, Connell presents the story of the Bellagio Group and its contribution to modern finance. Initiated by Machlup the Bellagio Group was made up of thirty-two non-government academic economists. During the years between 1964 and 1977 the Group met eighteen times and made a series of recommendations for policymakers. *Going to War?* investigates the reasons why countries enter conflicts by considering the depth and complexity of issues surrounding military deployments. Showing how such conditions affect future decisions about the use of force, contributors to this volume study recent experiences with military interventions – such as regional flash points, the global financial crisis, and public weariness – to outline the crucial factors that influence wartime decision-making. Through detailed discussion of threats, capabilities, trends, and the implications of Canada's and NATO's military experiences abroad, *Going to War?* determines that the reasons for warfare have as much to do with domestic concerns as they do with international threats. With essays by defence scientists, established and emerging scholars, and senior military officers from Germany, the United States, and Canada, this volume includes debates on whether the number of military fatalities is being reduced, war's changing character, and the ways in which the improvised explosive device has and will continue to challenge modern, advanced militaries deployed abroad, especially in Afghanistan and Iraq. A sophisticated exercise in foreign and defence policy analysis, *Going to War?* provides clear and vivid ideas on how to optimize future Western military interventions. Provides comprehensive information about the key exploration, development and optimization concepts required for gas shale reservoirs Includes statistics about gas shale resources and countries that have shale gas potential Addresses the challenges that oil and gas industries may confront for gas shale reservoir exploration and development Introduces petrophysical analysis, rock physics, geomechanics and passive seismic methods for gas shale plays Details shale gas environmental issues and challenges, economic consideration for gas shale reservoirs Includes case studies of major producing gas shale formations Advancing the Human Right to Health offers a perspective on the global response to one of the greatest moral, legal, and public health challenges of the 21st century - achieving the human right to health as enshrined in the Universal Declaration of Human Rights (UDHR) and other legal instruments. Featuring writings by global thought-leaders in the world of health human rights, the book brings clarity to many of the complex clinical, ethical, economic, legal, and socio-cultural questions raised by injury, disease, and deeper determinants of health, such as poverty. Much more than a primer on the right to health, this book features an examination of profound inequalities in health, which have resulted in millions of people condemned to unnecessary suffering and hastened deaths. In so doing, it provides a thoughtful account of the right to health's parameters, strategies on ways in which to achieve it, and discussion of why it is so essential in a 21st century context. Country-specific case studies provide context for analysing the right to health and assessing whether, and to what extent, this right has influenced critical decision-making that makes a difference in people's lives. Thematic chapters also look at the specific challenges involved in translating the right to health into action. *Advancing the Human Right to Health* highlights the urgency to build upon the progress made in securing the right to health for all, offering a timely reminder that all stakeholders must redouble their efforts to advance the human right to health. Over the past two decades, projects supported by the International Development Research Centre (IDRC) have critically examined the ways in which information and communications technologies (ICTs) can be used to improve learning, empower the disenfranchised, generate income opportunities for the poor, and facilitate access to healthcare in Africa, Asia, Latin America and the Caribbean. Considering that most development institutions and governments are currently attempting to integrate ICTs into their practices, it is an opportune time to reflect on the research findings that have emerged from IDRC's work and research in this area. "Connecting ICTs to Development" discusses programmatic investments made by IDRC in a wide variety of areas related to ICTs, including infrastructure, access, regulations, health, governance, education, livelihoods, social inclusion, technical innovation, intellectual property rights and evaluation. Each chapter in this book analyzes the ways in which research findings from IDRC-supported projects have contributed to an evolution of thinking, and discusses successes and challenges in using ICTs as tools to address development issues. The volume also presents key lessons learned from ICT4D programming and recommendations for future work. In *The Shifts and the Shocks*, Martin Wolf - one of the world's most influential economic commentators and author of *Why Globalization Works* - presents his controversial and highly original analysis of the economic course of the last seven years There have been many books that have sought to explain the causes and courses of the financial and economic crisis which began in 2007-8. *The Shifts and the Shocks* is not another detailed history of the crisis, but the most persuasive and complete account yet published of what the crisis should teach us about modern economies and economics. The book identifies the origin of the crisis in the complex interaction between globalization, hugely destabilizing global imbalances and our dangerously fragile financial system. In the eurozone, these sources of instability were multiplied by the tragically defective architecture of the monetary union. It also shows how much of the orthodoxy that shaped monetary and financial policy before the crisis occurred was complacent and wrong. In doing so, it mercilessly reveals the failures of the financial, political and intellectual elites who ran the system. The book also examines what has been done to reform the financial and monetary systems since the worst of the crisis passed. 'Are we now on a sustainable course?' Wolf asks. The answer is no.' He explains with great clarity why 'further crises seem certain' and why the management of the eurozone in particular 'guarantees a huge political crisis at some point in the future.' Wolf provides far more ambitious and comprehensive plans for reform than any currently being implemented. Written with all the intellectual command and trenchant judgement that have made Martin Wolf one of the world's most influential economic commentators, *The Shifts and the Shocks* matches impressive analysis with no-holds-barred criticism and persuasive prescription for a more stable future. It is a book no-one with an interest in global affairs will want to neglect. MARTIN WOLF is Associate Editor and Chief Economics Commentator at the Financial Times, London. He is the recipient of many awards for financial journalism, for which he was also made a CBE in 2000. His previous books include *Why Globalization Works* and *Fixing Global Finance*. "We have been inundated with books about the 'financial' aspects of the crisis. There have also been many books about specific institutions or memoirs by retired policy-makers. We need something different. There are two dimensions of the crisis that have received surprisingly little treatment. One is the link between developments in the macro-economy and the behaviour of the financial sector. The other is the global dimension of the crisis. Both these lie at the heart of Martin Wolf's analysis of the causes of the crisis and of his proposals to reduce the risk of another crisis. For these two reasons this is an important book that will be influential. Most important of all, it is in my view the right analysis and remedy" Mervyn King "To think straight about the causes and solutions of the financial crisis we must reject orthodox assumptions that more finance and global financial integration are limitlessly beneficial. *The Shifts and the Shocks* does just that, providing an intellectually sparkling and vital account of why the crisis occurred, and of the radical reforms needed if we are to avoid a future repeat" Adair Turner "Martin Wolf is unsurpassed in the world of economic journalists. His superb book may be the best of all those spawned by the Great Recession. It is analytical and rigorous without ever succumbing to fatalism or complacency" Lawrence Summers This volume looks afresh at the life and works of Lord Kelvin including his standing and relationships with Charles Darwin, T. S Huxley and the X-club, thereby throwing new light on the nineteenth-century conflict between the British energy and biology specialists. It focuses on two principal issues. Firstly, there is the contribution made by Kelvin to the formulation of the Laws of Thermodynamics, both personal and in the content of the scientific

communications exchanged with other workers, such as Joule and Clausius. Secondly, there is Kelvin's impact on the wider field of science such as thermoelectricity and geology (determination of the age of the earth). Of late a number of studies and initiatives, including the Centenary celebrations of Kelvin's death and exhibits such as that of the 'Revolutionary Scientist' in the Hunterian Museum, Glasgow, have been undertaken aiding the redefinition of Kelvin's greatness and achievements. The book also raises awareness to 'improve our approach to the teaching of elementary thermodynamics by attempting to empathise with Kelvin's perspective'. It is completed by a full biography, overviews of various monuments to his memory, and short 'Stories in Pictures' on the Atlantic cable, Maxwell's Demon, the universities associated with the development of thermodynamics and the Royal Society of Edinburgh. Scientists and engineers with an interest in thermodynamics and anyone interested in the work of Lord Kelvin will find benefit in Kelvin, Thermodynamics and the Natural World. Across the globe, populations are getting older. Hayashi surveys the development of residential care in Britain and Japan from the 1920s onwards, using regional case studies, and taking into account the influence of traditions and cultural norms. High voltage engineering is extremely important for the reliable design, safe manufacture and operation of electric devices, equipment and electric power systems. The 21st International Symposium on High Voltage Engineering, organized by the 90 years old Budapest School of High Voltage Engineering, provides an excellent forum to present results, advances and discussions among engineers, researchers and scientists, and share ideas, knowledge and expertise on high voltage engineering. The proceedings of the conference presents the state of the art technology of the field. The content is simultaneously aiming to help practicing engineers to be able to implement based on the papers and researchers to link and further develop ideas. Neo-liberal Strategies of Governing India and its companion volume Ideas and Frameworks of Governing India tell the story of governance in independent India and address the critical question: how is a post-colonial democracy governed? Further, they attempt to understand why the process of governing a post-colonial democracy, particularly in the neo-liberal age, should be studied as the central question within the history of post-colonial democracy. The volumes offer hitherto unexplored analyses of governance — political and ideological aspects along with technological characteristics — in a historical framework. This volume discusses: a contemporary history of democracy — ways of governing, resistance and their engagement political economy, development and neo-liberal governance governance as a strategy of accommodating claims and facilitating accumulation In breaking new ground in the study of what constitutes the political subject, these volumes will be indispensable to scholars, researchers and students of politics, public administration, development studies, South Asian studies and modern India.

7 YEAR-WISE Intelligence Bureau Assistant Central Intelligence Officer Grade-II/ Executive (Tier-I) Exam contains Past 7 Solved Papers of the IB exam. The past Solved papers included are : 2010, 2011, 2012, 2013, 2015, 2017 & 2021. The detailed solutions are provided immediately after each paper. Vintage August Novelty Notebook Daily dairy / journal / notebook to write in, for creative writing, for creating list, for scheduling, Organizing and Recording your thoughts. Makes a perfect august birthday gift idea or anniversary present for any special person in your life. Show everyone your value kindness in the world with this classic notebook. Perfectly sized at 6" x 9" 120 pages Softcover Bookbinding Flexible Paperback Anitta M. Hipper examines to what extent and under what conditions the EU's transformative power met with resistance in Romania. The book touches upon a raw nerve for most post-communist societies: justice and anti-corruption reform. Through the use of a context-sensitive approach, it assesses how domestic factors influenced the implementation of EU conditionality towards Romania from 1990 to 2012. Empirical investigations reveal a struggle between various interested parties in complying with EU conditionality. As a result, a complex layer of (non-)compliance emerged and it became a Herculean task to ensure the sustainability of reform by reformist forces within Romania and the EU. Pulp and Paper Industry: Nanotechnology in Forest Industry covers the latest scientific and technical advances in the area of nanotechnology in forest sector providing information on recent developments, structure and properties, raw materials and methods for the production of nanocellulose along with their characterization and application in various industries with an analysis of both challenges and opportunities with respect to environmentally sound technologies and consumer concerns such as health effects. Also identifies the key barriers to innovation, and the breakthroughs required to make nanocellulosic materials viable alternatives in the important sectors. Thorough review of the evolution and development of different types of nanocelluloses In-depth coverage of preparation and characterization of nanocellulose Use of nanocellulose materials in a wide range of applications Commercial and precommercial developments Challenges and opportunities of nanocellulose market Identifies the key barriers to innovation, and the breakthroughs required to make nanocellulosic materials viable alternatives in the important sectors The brilliant but turbulent life of a public intellectual who transformed the social sciences Robert Bellah (1927–2013) was one of the most influential social scientists of the twentieth century. Trained as a sociologist, he crossed disciplinary boundaries in pursuit of a greater comprehension of religion as both a cultural phenomenon and a way to fathom the depths of the human condition. A Joyfully Serious Man is the definitive biography of this towering figure in modern intellectual life, and a revelatory portrait of a man who led an adventurous yet turbulent life. Drawing on Bellah's personal papers as well as in-depth interviews with those who knew him, Matteo Bortolini tells the story of an extraordinary scholarly career and an eventful and tempestuous life. He describes Bellah's exile from the United States during the hysteria of the McCarthy years, his crushing personal tragedies, and his experiments with sexuality. Bellah understood religion as a mysterious human institution that brings together the scattered pieces of individual and collective experiences. Bortolini shows how Bellah championed intellectual openness and innovation through his relentless opposition to any notion of secularization as a decline of religion and his ideas about the enduring tensions between individualism and community in American society. Based on nearly two decades of research, A Joyfully Serious Man is a revelatory chronicle of a leading public intellectual who was both a transformative thinker and a restless, passionate seeker. Written by the world's foremost leaders in the field of nosocomial infections, Bennett & Brachman's Hospital Infections, 7th Edition, is a must-have text for preventing Hospital-Acquired Infections (HAIs) in all inpatient and outpatient healthcare settings. This comprehensive volume provides up-to-date, authoritative coverage on all aspects of this vital topic, with editor Dr. William R. Jarvis leading a team of notable contributors from the U.S. Centers for Disease Control and Prevention, as well as additional authors who provide an international perspective on HAIs. The newly revised and expanded seventh edition continues to be an invaluable resource for anyone working in infection prevention and control, quality assurance or risk management in healthcare settings. America is in decline, and the rise of the East suggests a bleak future for the world's only superpower -- so goes the conventional wisdom. But what if the traditional measures of national status are no longer as important as they once were? What if America's well-being was assessed according to entirely different factors? In The Upside of Down, Charles Kenny argues that America's so-called decline is only relative to the newfound success of other countries. And there is tremendous upside to life in a wealthier world: Americans can benefit from better choices and cheaper prices offered by schools and hospitals in rising countries, and, without leaving home, avail themselves of the new inventions and products those countries will produce. The key to thriving in this world is to move past the jeremiads about America's deteriorating status and figure out how best to take advantage of its new role in a multipolar world. A refreshing antidote to prophecies of American decline, The Upside of Down offers a fresh and highly optimistic look at America's future in a wealthier world. This important book is an authoritative work of reference on the G20, G8 and G20 reform, and relevant information sources. Peter Hajnal thoroughly traces the origins of the G20, surveys the G20 finance ministers' meetings since 1999 and the series of G20 summits since 2008. He examines agenda-setting and agenda evolution, discusses the question of G20 membership and surveys the components of the G20 system. He goes on to analyze the relationship of the G20 with international governmental organizations, the business sector, and civil society and looks at the current relationship between the G8 and the G20. He also discusses how G20 performance can be monitored and evaluated. The book includes an extensive bibliography on the G20, G8/G20 reform, and issues of concern to the G20. The book is a companion volume to The G8 System and the G20: Evolution, Role and Documentation (Hajnal, 2007) and is an essential source for all scholars and students of the G20. Family businesses are everywhere, but there is little information regarding their growth and development. This book is one of the few to analyse the identity and evolution of the largest family businesses in Latin America and Spain. With contributions from 20 scholars from 12 different countries, the book compares the relationship of families in business within their national economies, foreign capital, migration, and politics. The authors deny the existence of a 'Latin type' of family capitalism in their countries, and highlight diversity, and national and regional differences. This interdisciplinary book will be useful for students and scholars of economics, management, history, sociology, and anthropology. Politicians, family business consultants, and international institutions will also benefit from insights within this book. This book explores U.S.-China relations, the most important bilateral relationship in the world, under the leadership of President Barack Obama. Obama took office just as China's rise to global power accelerated; his decisions set the stage for a new era in U.S.-China relations. In Part I, the book outlines Barack Obama's own personal worldview and the backgrounds of the advisors that made up his China team, including Hillary Clinton, Robert Gates, John Kerry, and Susan Rice. Part II chronologically details the major events in U.S.-China relations from 2009 to 2014, including such high-profile cases as Obama's first China visit, the 'Pivot to Asia', the story of blind lawyer Cheng Guangcheng, Xi Jinping's rise to power, and Edward Snowden's revelations on U.S. cyberespionage. Part III switches back to a topical organization, addressing Sino-U.S. relations and interactions with regards to various issues: economics, military relations, climate change, human rights, and multilateral cooperation in regional and international organizations such as the APEC, G20 and the United Nations. Finally, the book ends with timely suggestions for how to improve the U.S.-China relationship and ensure a peaceful future. One of the challenges of financial stability analysis and bank stress testing is how to establish scenarios with meaningful macro-financial linkages, i.e., taking into account spillover effects and other forms of contagion. We come up with an approach to simulate the potential impact of spillover effects based on the "traditional" design of macro-economic stress tests. Specifically, we examine spillover effects observed during the financial crisis and simulate their impact on banks' liquidity and capital positions. The outcome suggests that spillover effects have a highly non-linear impact on bank soundness, both in terms of liquidity and solvency. China has become one of the fastest-growing economies ever seen in the world in recent times. In the last three decades, China has transformed itself from a command economy to a market one, albeit a nominally socialist one, and its management systems have been reformed accordingly. In the light of these changes, Malcolm Warner, one of the leading authorities on management in China, explores the past, present and future of Chinese management. The first part of the work examines the history of management practices in the 'Middle Kingdom', outlining the influence of traditional Chinese values, especially the Confucian inheritance, and the legacy of the imperial bureaucracy with its meritocratic examination system, as well as the role of industrialization and the influx of foreign-owned businesses in the late nineteenth century and the twentieth century. It next goes on to consider the current state of China's management, showing how a new breed of manager has evolved since the beginning of Deng Xiaoping's reforms in the late 1970s and 1980s. The resulting impact of this strategy which has continued into the 1990s and the 2000s, up to the present day, is then examined. The final part of the book concludes with reflections on how management in China is likely to develop in the near future, especially on how far it will converge with global practices or to what degree an indigenous form of management 'with Chinese characteristics' will prevail. With social and community services coming under increasing pressure as austerity continues, Unfinished Business examines how social policy has operated in Ireland and how it has been affected by consistent government cutbacks. It examines a wide range of issues important to social care students, such as poverty, homelessness, disability, immigrants, mental health and many other issues pertinent to Irish society today. This book: Is the first Irish social policy textbook written for social care students Poses important questions about not only social policy approaches but also policy failings, and makes the case for a move towards social policy regulation Is useful to students from other disciplines, such as community work, early childhood studies, nursing, addiction studies and child protection studies Is written in a clear and accessible style and laid out in a user-friendly manner The book is aimed at undergraduate students in social studies, social science and public administration, and will also prove useful to practitioners who seek to broaden their understanding of social care. Classic August Novelty Notebook Daily dairy / journal / notebook to write in, for creative writing, for creating list, for scheduling, Organizing and Recording your thoughts. Makes a perfect august birthday gift idea or anniversary present for any special person in your life. Show everyone your value kindness in the world with this classic notebook. Perfectly sized at 6" x 9" 120 pages Softcover Bookbinding Flexible Paperback Energy Efficiency in the Urban Environment is a study of energy crisis, urbanisation, and climate change, as well as a discussion of how to combat these global challenges. With a special focus on Egypt, this book addresses the macroscale of urbanism from the perspective of city dwellers' quality of life, and explores the microscale of buildings and the perspective of ensuring indoor air quality within the boundaries of energy efficiency. Offering an integrated view of energy systems and urban planning supported by extensive data, references, and case studies, this text: Examines the energy efficiency performance of cities following sustainable urbanism principles Investigates how informal areas in developing countries achieve sustainable development Presents energy-efficient urban planning as a tool for improving city energy performance Proposes the development of a common procedure for obtaining an energy performance certificate Calculates the energy performance of buildings, accounting for heating/cooling systems and other variables Energy Efficiency in the Urban Environment demonstrates the importance of implementing an energy performance directive to aid energy savings in large buildings and set regulations for energy-efficient designs based on standard calculation methods. This book provides engineers working with sustainable energy systems, urban planners needing information on energy systems and optimisation, and professors and students of engineering, environmental science, and urban planning with a valuable reference on energy sustainability. This book examines the development of Uzbekistan's international relations since the collapse of the Soviet Union. The American Revolution—an event that gave America its first real "story" as an independent nation, distinct from native and colonial origins—continues to live on in the public's memory, celebrated each year on July 4 with fireworks and other patriotic displays. But to identify as an American is to connect to a larger national narrative, one that begins in revolution. In Popular Media and the American Revolution, journalism historian Janice Hume examines the ways that generations of Americans have remembered and embraced the Revolution through magazines, newspapers, and digital media. Overall, Popular Media and the American Revolution demonstrates how the story and characters of the Revolution have been adjusted, adapted, and co-opted by popular media over the years, fostering a cultural identity whose founding narrative was sculpted, ultimately, in revolution. Examining press and popular media coverage of the war, wartime anniversaries, and the Founding Fathers (particularly, "uber-American hero" George Washington), Hume provides insights into the way that journalism can and has shaped a culture's evolving, collective memory of its past. Dr. Janice Hume is a professor and head of the Department of Journalism in the Grady College of Journalism and Mass Communication at the University of Georgia. She is author of *Obituaries in American Culture* (University Press of Mississippi, 2000) and co-author of *Journalism in a Culture of Grief* (Routledge, 2008). Software Defined Networks discusses the historical networking environment that gave rise to SDN, as well as the latest advances in SDN technology. The book gives you the state of the art knowledge needed for successful deployment of an SDN, including: How to explain to the non-technical business decision makers in your organization the potential benefits, as well as the risks, in shifting parts of a network to the SDN model How to make intelligent decisions about when to integrate SDN technologies in a network How to decide if your organization should be developing its own SDN applications or looking to acquire these from an outside vendor How to accelerate the ability to develop your own SDN application, be it entirely novel or a more efficient approach to a long-standing problem Discusses the evolution of the switch platforms that enable SDN Addresses when to integrate SDN technologies in a network Provides an overview of sample SDN applications relevant to different industries Includes practical examples of how to write SDN applications The ASEAN-India economic integration has made substantial progress in recent years. India's engagements with Southeast and East Asia have received new momentum under the Act East Policy (AEP). In 2017, ASEAN and India will be celebrating 25 years of their dialogue relations. The relationship is set to deepen in coming days as ASEAN and India step up their collaboration across a range of economic and strategic issues, including trade and connectivity, culture, people-to-people links, trans-national terrorism, and maritime security. However, both of them have been facing several challenges which call for concerted efforts by ASEAN and India. With ASEAN and India working towards establishing a Comprehensive Free Trade Area through Regional Comprehensive Economic Partnership (RCEP) agreement, their cooperation will be key in promoting economic stability, competitiveness, growth and integration in the region. This book is a timely initiative to review the past and suggest the ways to further strengthen the economic partnership. It primarily deals with the economic integration issues between ASEAN and India, and assesses policy priorities, effectiveness, implementation imperatives and challenges. Each chapter in this book tries to capture essential features of the crosscutting issues and attempts to draw some policy implications. It will be a valuable reference for policymakers, academics and practitioners. Please note: Taylor & Francis does not sell or distribute the *Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka* Financial stability is necessary. To achieve this common target an on-going dialogue is required between industry, policymakers, academia and other relevant stakeholders. This book provides a welcome and refreshing perspective from different standpoints on the issues at stake, and reminds us of the remaining work ahead. Ð Axel Weber, Chair of Supervisory Board, UBS Ö Since 2008, financial stability has moved to the center of the policy stage. This volume, combining contributions from leading policy makers and academics, is the essential introduction to the issues. Must reading. Ð Barry Eichengreen, George C. Pardee and Helen N. Pardee Professor of Economics and Political Science, University of California, Berkeley, US Ö There was a world BC (Before Crisis) and there will be a world AD (After Deleveraging) Ð the challenge is to create an effective, efficient yet stable and sustainable financial system for this Ö new world Ö This book provides the most comprehensive and thought-provoking basis for action I have seen so far. Ö Ð Paul Achleitner, Chair of Supervisory Board Deutsche Bank AG Ö Financial stability is an overarching goal. In open and democratic societies, ensuring financial stability is a matter of interest not only to central bankers, academics and financial market players, but also to all well-informed citizens. This book provides an excellent basis for a wide-ranging and rewarding debate. Ö Ð Thomas J. Jordan, Chairman of the Governing Board of the Swiss National Bank Ö The financial crisis demonstrated conclusively that for central bankers and other policymakers financial stability must always be of paramount concern, for without it the macroeconomy will perform badly and monetary policy will lose its effectiveness. This book underscores the importance of financial stability, laying out the key issues and what must be done to avoid such disasters in the future. Ö Ð William C. Dudley, President of the Federal Reserve Bank of New York, US In the aftermath of the financial crisis, new financial market regulation is being implemented, and increasing numbers of countries are establishing new legislation for macroprudential oversight. Against this backdrop, this thought provoking book provides a platform for the leading international experts to discuss and encourage future debate on financial stability. The breadth and scope of the issues addressed reflect the challenge of developing and consistently implementing a coherent set of financial reforms to promote financial stability. The book advocates the development of financial reforms that are effective in striking the optimal balance between realizing the enormous benefits of efficient financial intermediation, capital allocation and risk management on the one hand, and controlling systemic risks and maintaining financial stability on the other. Making an important contribution to deepening our understanding of the many facets of financial stability, this book will prove a challenging read for policy makers, regulators and central bankers as well as for researchers and scholars in the fields of economics, money, finance and banking. Conflict resolution, as a defined field of study, has been facing stiff challenges in the post Cold War world. The multipolar setting of the globalised world with rising incidence of intra-state conflicts and growing convergence between security and development issues have generated fresh as well as severely mutated old challenges which most often do not fit well within traditional theoretical explanatory categories evolved within Peace and Conflict Studies. This disjunction is often generated by the fact that the modern conflict zones are mostly located in the developing and underdeveloped parts of the global South whereas the discourses of Conflict resolution continue to be largely western in origin and focus. Dissatisfaction with this process led to the search for alternative values in non-western discourses either philosophical such as Buddhism, or Gandhian methodology of peaceful satyagraha. Attempts made by Peace and Conflict resolution theorists to borrow and integrate non-western concepts within the paradigm, however important, are but small steps which indicate the growing complexities associated with the process as well as

academic analyses and discussions related to conflict resolution. More micro-level studies of attempts towards conflict resolution from primarily non-western conflict zones as well as alternative theorisations about non-western norms (if any) and discourses would be necessary to ascertain whether a non-western alternative paradigm for conflict resolution is possible, desirable, and whether it could be integrated and absorbed successfully within the already established theoretical models of conflict. The present edited volume represents some of these viewpoints. It includes nine essays which try to look into the process of conflict resolution from various angles, the primary aim being to discover whether it could be done through non-western prism and would be of interest to both practitioners and academics and, of course, students. The problem of clinical pain management is complex and far-reaching, as it encompasses many different types of pain, such as arthritis, musculoskeletal conditions, neuropathic pain, and visceral pain. It is widely known that many of the well-established analgesic pathways are centrally based, involving spinal and supraspinal sites. However, pain can also be effectively controlled by peripheral pathways. The analgesics market is growing and the driving forces are the aging population and need for better therapeutic benefits. There are various analgesic products that are available that can be administered by various routes, yet research is active in identifying new technologies for better drug targeting and novel targets to gain improved therapeutic efficiency. This e-Book "PAIN – novel targets and new technologies" has brought together experts in the field of pain at the physiological, pharmacological and pharmaceutical levels to discuss novel pain targets and new pain technologies across the various types of pain. This information is presented as novel research findings, short communications and review articles. The goal of this e-Book is to generate further collaborative discussion on the future and direction of pain therapies.

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