

# Computing 9691 November 2013 Paper 2

*Resurgent Resource Nationalism Milk and Dairy Products as Functional Foods The Political Economy and Media Coverage of the European Economic Crisis Faith-Based Violence and Deobandi Militancy in Pakistan Pedagogy, Politics and Philosophy of Peace Historia Ludens The South China Sea EU Foreign Policy, Transitional Justice and Mediation Treatise on International Criminal Law Austerity Bites People, Planet and Profit Capitalism's Crises Regional Intervention Politics in Africa Participatory archives in a world of ubiquitous media Forests and Globalization Global Economic Cooperation BRICS and International Tax Law Labour Law in Russia The Shifts and the Shocks Green Home Building Modern Climate Change Science Talent Development in European Higher Education Neurophysiology in Alzheimer's Disease and Dementia Modulators of hypothalamic-pituitary-gonadal axis for the control of spermatogenesis and sperm quality in vertebrates Public History Precision Strike Warfare and International Intervention Capacity Mechanisms in the EU Energy Market Resilience Molecular mechanisms regulating cytotoxic lymphocyte development and function, and their associations to human diseases Astrocytic-neuronal-astrocytic Pathway Selection for Formation and Degradation of Glutamate/GABA Institutional Supports for the International Rule of Law The Routledge Companion to Social Media and Politics International Trials and Reconciliation The Trans Pacific Partnership, China and India India--Myanmar Relations Territorial Cohesion in Rural Europe Security in a Small Nation The Neighbours of the European Union's Neighbours The New US Strategy towards Asia CDS Solved Paper Chapterwise & Sectionwise*

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The Routledge Companion to Social Media and Politics Mar 05 2020 Social media are now widely used for political protests, campaigns, and communication in developed and developing nations, but available research has not yet paid sufficient attention to experiences beyond the US and UK. This collection tackles this imbalance head-on, compiling cutting-edge research across six continents to provide a comprehensive, global, up-to-date review of recent political uses of social media. Drawing together empirical analyses of the use of social media by political movements and in national and regional elections and referenda, The Routledge Companion to Social Media and Politics presents studies ranging from Anonymous and the Arab Spring to the Greek Aganaktismenoi, and from South Korean presidential elections to the Scottish independence referendum. The book is framed by a selection of keystone theoretical contributions, evaluating and updating existing frameworks for the social media age.

Neurophysiology in Alzheimer's Disease and Dementia Dec 14 2020 Alzheimer's disease (AD) and dementia are the most common neurodegenerative disorder. Since the number of individuals with AD and dementia is expected to increase considerably in the near future, reliable treatment and diagnosis are critical. EEG and neurophysiological technique could be used as a cost-effective screening tool for early detection and diagnosis in the Mild Cognitive Impairment (MCI) stage. The aim in neurophysiology research is to develop signal processing methods that improve the specificity for diagnosing dementia; we wish to discover signal features that not only significantly differ in AD patients, but also allow us to reliably separate AD patients and control subjects. This approach is valuable for clinical purposes (as diagnostic tool for dementia), and it also more fundamentally contributes to a better understanding of brain dynamics of MCI patients. Finally, the development of neurophysiological biomarker could be useful in monitoring pharmacological treatments. The main focus of this special issue will be on the most recent developments and ideas in the field of EEG and neurophysiology which will enable us to extract features that improve the specificity for diagnosing AD and dementia.

**BRICS and International Tax Law** Jun 19 2021 With the ongoing expansion of outbound foreign direct investment (FDI) in the countries representing the BRICS economic bloc (Brazil, Russia, India, China, and South Africa) - and with all of them at the same time listed among the top seven countries plagued by tax evasion and avoidance in the guise of illicit outflows - the respective governments, both individually and through cooperative initiatives, have devised new international tax strategies that are proving to be of great interest

and value to other countries, both developing and developed. The core of these strategies addresses the necessity of stemming the outflow of revenue while strongly supporting FDI, both inbound and outbound while complying with international obligations including those arising from human rights laws. This book is the first in-depth commentary on this new and evolving area of international tax law. The detailed analysis covers the entire field of BRICS international tax law, considering topics such as the following: - information exchange procedures and pitfalls; - response to the OECD's Base Erosion and Profit-Sharing (BEPS) initiative; - role of bilateral and multilateral double taxation conventions including the Multilateral Instrument and the Bilateral Investment Treaties; - thin capitalization; - transfer pricing; - controlled foreign corporation rules; - shortcomings related to authorities' limited manpower; - international audit and investigation procedures; - the BRICS approach to residence and mandatory and binding arbitration; and - the BRICS approach to shaping the developing world's international tax system. Notably, the author personally conducted interviews with senior international representatives of the BRICS tax authorities, as well as with leading BRICS academics and practitioners. Tax cases, together with human rights and investment cases and administrative guidelines in all five countries are also included in the analysis. The study concludes with recommendations for improving each of the five countries' tax law and procedures, especially in the area of dispute resolution. The author's goal is to extend the existing body of knowledge of the BRICS' international tax laws in order to assist in developing an understanding of the BRICS approach to dealing with evasion and avoidance: an approach which facilitates both outbound and inbound FDI, simplifies tax authority administration and establishes a basis for resolving international disputes which is compatible with sovereignty. In achieving this objective, the author has produced a major work that is of immeasurable value to tax advisers, government and governance officials, academics and researchers both in developing international taxation strategies and in helping to resolve disputes with tax authorities. Security in a Small Nation Sep 30 2019 The 2014 Referendum on Scottish independence sparked debate on every dimension of modern statehood. Levels of public interest and engagement were unprecedented, as demonstrated by record-breaking voter turnout. Yet aside from Trident, the issue of security was relatively neglected in the campaigns, and there remains a lack of literature on the topic. In this volume Andrew Neal has collated a variety of interdisciplinary perspectives on security and constitutional change in Scotland and the UK, including writing from experts in foreign policy analysis, intelligence studies, parliamentary studies, and journalism. Security in a Small Nation provides an illuminating analysis of the politics of

security. Its authors reflect on a number of related issues including international comparisons, alliances, regional cooperation, terrorism, intelligence sharing, democratic oversight, and media coverage. It has a particular focus on what security means for small states and democratic politics. The book draws on current debates about the extent of intelligence powers and their implications for accountability, privacy, and human rights. It examines the foreign and security policy of other small states through the prism of Scottish independence, providing unique insight into the bureaucratic and political processes associated with multi-level security governance. These contributions provide a detailed picture of the changing landscape of security, including the role of diverse and decentralised agencies, and new security interdependencies within and between states. The analysis presented in this book will inform ongoing constitutional debates in the UK and the study of other secessionist movements around the world. Security in a Small Nation is essential reading for any follower of UK and Scottish politics, and those with an interest in security and nationhood on a global scale.

**India--Myanmar Relations** Dec 02 2019 This book provides a comprehensive evaluation of India's multi-faceted relations with Myanmar. It unravels the mysteries of the complex polity of Myanmar as it undergoes transition through democracy after long military rule. Based on meticulous research and understanding, the volume traces the trajectory of India-Myanmar associations from ancient times to the present day, and offers a fascinating story in the backdrop of the region's geopolitics. An in-depth analysis of 'India-Myanmar-China Triangle' brings out the strategic stakes involved. It will be of great interest to researchers and scholars of international relations, peace and conflict studies, defence and strategic studies, politics, South and Southeast Asian studies, as well as policy-makers and political think tanks.

**The Trans Pacific Partnership, China and India** Jan 03 2020 The United States and 11 other countries from both sides of the Pacific are currently negotiating the Trans-Pacific Partnership (TPP). The agreement is expected to set new benchmark for international trade through its comprehensive coverage of issues and binding regulations. It is expected to eventually mature into a regional trade agreement covering the entire Asia-Pacific. As of now, it does not include China and India, the two largest emerging markets and regional economies. The TPP has generated controversy for its excessive emphasis on trade issues, which have remained unresolved or unaddressed at the WTO due to differences between developed and emerging markets. It has also been criticized for adopting a negotiating style reflecting the US regulatory approach to international trade and also as a geo-political strategy of the US for supporting its strategic rebalancing towards Asia. From both economic and geo-political perspectives, the TPP has various significant implications for China and India that are examined in the book. This book sheds light on how China and India's entries in the TPP are mutually beneficial and how both countries can gain from the TPP by gaining preferential access to large markets and using it as an opportunity for introducing more outward-oriented reforms. The book also cautions that US must reconcile to the rebalancing of economic power within the grouping that will occur following the entries of China and India. Otherwise, the TPP and China and India might walk divergent paths and trade and regional integration in Asia-Pacific may not ever converge. This book will interest anyone who wishes to learn more about the TPP and its future implications and challenges and China and India's roles in global and regional trade.

**Public History** Oct 12 2020 The 2nd edition of *Public History: A Practical Guide* provides a fresh examination of history as practiced in its various worldly guises and contexts. It analyses the many skills that historians require in the practice of public history and looks at how a range of actors, including museums, archives, government agencies, community history societies and the media/digital media, make history accessible to a wider audience in a variety of ways. Faye Sayer's exciting new edition includes: \* Brand new chapters on 'Restoration and Preservation' and history and the working world \* Substantial additions covering the growing fields of digital history and history in politics \* More images, figures and international case studies from the US, Australia, the UK, Europe and Asia \* 'Personal Reflection' sections from a range of industry experts from around the world \* Historiographical updates and significant revisions throughout the text \* Expanded online 'Public History Toolkit' resource, with a range of new features *Public History: A Practical Guide* delivers a comprehensive outline of this increasingly prevalent area of the discipline, offering a distinctly global approach that is both accessible and engaging in equal measure. Finally, it explores future methodological possibilities and can be used as a reference point for

professional development planning in the sectors discussed. This is the essential overview for any student wanting to know what history means beyond the classroom.

**Precision Strike Warfare and International Intervention** Sep 10 2020 This book explores whether the new capabilities made possible by precision-strike technologies are reshaping approaches to international intervention. Since the end of the Cold War, US technological superiority has led to a more proactive and, some would argue, high risk approach to international military intervention. New technologies including the capacity to mount precision military strikes from high-level bombing campaigns and, more recently, the selective targeting of individuals from unmanned aerial vehicles (UAVs) have facilitated air campaigns, supported by Special Forces, without the commitment of large numbers of troops on the ground. Such campaigns include, for example, NATO's high-level aerial bombardment of Milosevic's forces in Kosovo in 1999 and of Gaddafi's in Libya in 2011, and the US operation involving Special Forces against Osama Bin Laden. The development of UAVs and electronic data intercept technologies has further expanded the potential scope of interventions, for example against Islamic militants in the tribal areas of Pakistan. This volume examines three key and interrelated dimensions of these new precision-strike capabilities: (1) the strategic and foreign policy drivers and consequences; (2) the legal and moral implications of the new capabilities; and (3), the implications for decision-making at the strategic, operational and tactical levels. This book will be of much interest to students of war and technology, air power, international intervention, security studies and IR.

**The Shifts and the Shocks** Apr 17 2021 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  
CDS Solved Paper Chapterwise & Sectionwise Jun 27 2019 1. CDS Chapterwise Sectionwise Solved Papers provide complete study material for the entrance 2. The guide Covers the entire syllabus into 4 major sections 3. Chapter wise solved papers for practice 4. Housed with customized study material for effective and robust preparation. 5. The book is gives real knowledge of exam pattern, level of toughness and trends of questions Union Public Service Commission UPSC has released the notification of more than 400 seats for the Combined Defence Services Exam (I) 2022. Make yourself exam ready with the revised edition of Chapterwise- Sectionwise Solved Papers CDS Entrance Examination aims to provide complete study material in a Chapterwise and Sectionwise manner. It is divided into 4 Key Sections including mathematics, English, Science and General Studies. This book provides real knowledge of pattern, toughness level and trend of exam to CDS aspirants. Housed with such customized study material for effective and robust preparation, it is a highly approachable book to get the real knowledge of exam pattern, level of toughness and trends of questions to perform best in the exam. TOC CDS Solved Papers (2021-2020), Elementary Mathematics, English, Science, and General Studies.

*The Political Economy and Media Coverage of the European Economic Crisis* Sep 03 2022 The European economic crisis has been ongoing since 2008 and while austerity has spread over the continent, it has failed to revive economies. The media have played an important ideological role in presenting the policies of economic and political elites in a favourable light, even if the latter's aim has been to shift the burden of adjustment onto citizens. This book explains how and why, using a critical political economic perspective and focusing on the case of Ireland. Throughout, Ireland is compared with contemporary and historical examples to contextualise the arguments made. The book covers the housing bubble that led to the crash, the rescue of financial institutions by the state, the role of the European institutions and the International Monetary Fund, austerity, and the possibility of leaving the eurozone for Europe's peripheral countries. Through a systematic analysis of Ireland's main newspapers, it is argued that the media reflect elite views and interests and downplay alternative policies that could lead to more progressive responses to the crisis.

*Resurgent Resource Nationalism* Nov 05 2022 The period between 2001 and 2008 saw the longest commodities boom in recent history. Resource-rich countries across the world developed more interest in the profits, control and ownership of their natural resources. South Africa, which did not benefit much from the boom in commodity prices, was nonetheless affected by the emergent resource nationalism trend, and it became the focus of the governing party's 2010 National General Council, which ultimately resulted in the constitution of a committee to review the country's policy and legislative framework regarding 'natural wealth beneath the soil'. Although the resurgence of resource nationalism is a recent phenomenon, the idea of state intervention in the economy, and the extractive sector in particular, is not new. *Resurgent Resource Nationalism* is a qualitative study, undertaken by MISTRA for SASOL Ltd, that looks at the resurgence of resource nationalism over the past ten years. It discusses the concept of resource nationalism and its manifestation in public policy. It identifies the concerns, drivers and instruments through which resource nationalism is pursued by various mining jurisdictions across regions. It deliberately focuses more on the hydrocarbons sector in order to suit the target audience. The aim is to observe macro-trends emerging in various regions of the world and explore how best private actors can respond to the various forms of resource nationalism.

**Milk and Dairy Products as Functional Foods** Oct 04 2022 There continues to be strong interest within the food industry in developing new products which offer functional health benefits to the consumer. The premium prices that can be charged make these added-value products lucrative for manufacturers, and they are also commercially popular. Dairy foods are central to this sector: they are good delivery systems for functional foods (yoghurts, milk drinks, spreads) and are also rich in compounds which can be extracted and used as functional ingredients in other food types. *Milk and Dairy Products as Functional Foods* draws together a wealth of information regarding the functional health benefits of milk and dairy products. It examines the physiological role and the claimed health effects of dairy constituents such as proteins, bioactive peptides, conjugated linoleic acid (CLA), omega 3 fatty acids vitamin D and calcium. These

constituents have been shown to be, for example, anticarcinogenic, anti-inflammatory, antihypertensive, hypocholesterolemic, immune-modulating and antimicrobial. This book examines the evidence for these claims, and investigates practical approaches for utilising these attributes. The book is aimed at dairy scientists and technologists in industry and academia, general food scientists and technologists, microbiologists and nutritionists together with all those involved in the formulation and production of functional food products.

*Capitalism's Crises* Nov 24 2021 The contributors to this volume draw on a non-dogmatic Marxist approach to explain the systemic and conjunctural dynamics of crisis inherent in global capitalism. Their analysis asks what is historically specific to capitalism's crises while avoiding catastrophic or defeatist claims. At the same time the volume situates left agency within actual patterns of resistance and class struggle to clarify the potential for transformative change. The cycle of resistance strengthened by the World Social Forum and transnational activism is now punctuated by the experience of the Arab Spring, the agency of anti-systemic movements, left think tanks, the Occupy Wall Street Movement, labour unions, left parties in Europe such as Syriza and Podemos and peoples' budgeting in Kerala, India. On the down side, we are witnessing the waning of the Workers Party in Brazil and serious challenges for South Africa's once powerful labour movement and still formative social justice activism. All these developments are assessed in this volume. This is the second volume in the Democratic Marxism series. It elaborates on crucial themes introduced in the first volume, *Marxism in the 21st Century: Crisis, Critique and Struggle* (edited by Michelle Williams and Vishwas Satgar).

**Treatise on International Criminal Law** Feb 25 2022 Since the adoption of the Rome Statute of the International Criminal Court in 1998, international criminal law has rapidly grown in importance. This three-volume treatise on international criminal law presents a foundational, systematic, consistent, and comprehensive analysis of the field. Taking into account the scholarly literature, not only sources written in English but also in French, German, Italian, Portuguese, and Spanish, the book draws on the author's extensive academic and practical work in international criminal law. This third volume offers a comprehensive analysis of the procedures and implementation of international law by international criminal tribunals and the International Criminal Court. Through analysis of the framework of international criminal procedure, the author considers each stage in the process of proceedings before the ICC, including the role of legal participants, the scope of jurisdiction, and the enforcement of sentences. The full three-volume treatise addresses the entirety of international criminal law, re-stating and re-examining the fundamental principles upon which it rests, the manner it is enacted, and the key issues that are shaping its future. It is essential reading for practitioners, scholars, and students of international criminal law alike.

*EU Foreign Policy, Transitional Justice and Mediation* Mar 29 2022 This book analyses how the European Union translates its principles of peace and justice into policy and puts them into practice, particularly in societies in or emerging from violent conflict. The European Union treaty states that in its relations with the wider world, the EU is to promote peace, security, the protection of human rights, and the strict observance and the development of international law. The EU is active in peace processes around the world, yet its role in international peace mediation is largely ignored. This book offers the first scholarly analysis of how the EU engages in peace processes and justice for human rights violations, focussing on the point where mediation and transitional justice intersect. Drawing on extensive fieldwork, the book includes case studies of how the EU sought to promote peace and justice in the Democratic Republic of Congo (DRC), how it supports international justice through the International Criminal Court, and a model of the EU as a mediator. These provide an evidence-base for policy makers and practitioners as well as strong empirical contributions to theory. The book addresses whether and how the EU pursues its principles of both peace and justice in conflict zones, where, in practice, these principles may be in conflict, and the implications of these findings for understanding EU foreign policy and the EU as a security actor. This book will be of much interest to students of EU foreign policy, transitional justice, peace and conflict studies and security studies.

**Institutional Supports for the International Rule of Law** Apr 05 2020 The rule of law is widely seen as the cornerstone of any effective polity and increasingly a vital component of the international political system. If the international rule of law were to be strengthened, it would greatly contribute to trade,

security, human rights and global cooperation in a range of fields. Yet, in many areas the rule of law seems almost absent in international affairs. This book explores the institutions that support the effectiveness of the rule of law domestically. It focuses on the extent to which similar institutions already exist at international level and analyses the possibility of their further development. The authors speculate on how the international rule of law might be advanced in the future, thereby suggesting potential strategies for strengthening the international rule of law. Adopting an interdisciplinary approach and combining the fields of international relations, politics and law, this book covers a range of institutions including: UN Security Council International Court of Justice Human rights machinery Regional human rights International Criminal Court World Trade Organization International Tribunal for the Law of the Sea UN Department of Peacekeeping Operations. It will be of strong interest to students and scholars of international relations, international organisations, global governance, international law, migration law, international peace and security law, applied ethics, political economy, political science and sociology.

Global Economic Cooperation Jul 21 2021 This book discusses issues such as global financial crisis and global governance, food security, energy sustainability, the global financial system, trade and protectionism, and growth and employment. Since the outbreak of the financial as well as national debt crises in the Euro zone, the focus of the G20 has shifted back to addressing short-term issues. These issues range from the dynamic effects of global imbalances and the appropriate degree of financial sector regulation to questions of austerity versus growth and the lack of a comprehensive framework for managing the international monetary system. A further issue is the relevance of the G20 agenda for emerging market economies. Global economic recovery still remains fragile and downside risks to global growth remain. Additionally, much of the agenda of the Seoul Development Consensus for shared growth launched in 2010 has yet to be fulfilled. A key discussion point in the book, therefore, is how to make a tangible and significant difference in peoples' lives by implementing an agenda of inclusive growth.

*Faith-Based Violence and Deobandi Militancy in Pakistan* Aug 02 2022 This book documents and highlights the Deobandi dimension of extremism and its implications for faith-based violence and terrorism. This dimension of radical Islam remains largely ignored or misunderstood in mainstream media and academic scholarship. The book addresses this gap. It also covers the Deobandi diaspora in the West and other countries and the role of its radical elements in transnational incidents of violence and terrorism. The specific identification of the radical Deobandi and Salafi identity of militants is useful to isolate them from the majority of peaceful Sunni and Shia Muslims. Such identification provides direction to governmental resources so they focus on those outfits, mosques, madrassas, charities, media and social media channels that are associated with these ideologies. This book comes along at a time when there is a dire need for alternative and contextual discourses on terrorism.

Historia Ludens May 31 2022 This book aims to further a debate about aspects of "playing" and "gaming" in connection with history. Reaching out to academics, professionals and students alike, it pursues a dedicated interdisciplinary approach. Rather than only focusing on how professionals could learn from academics in history, the book also ponders the question of what academics can learn from gaming and playing for their own practice, such as gamification for teaching, or using "play" as a paradigm for novel approaches into historical scholarship. "Playing" and "gaming" are thus understood as a broad cultural phenomenon that cross-pollinates the theory and practice of history and gaming alike.

**Pedagogy, Politics and Philosophy of Peace** Jul 01 2022 In an age where official and sponsored violence are becoming normalised and conceived of as legitimate tools of peace keeping, a number of leading academics and activists represented in *Pedagogy, Politics and Philosophy of Peace* interrogate and resist the intensification of the militarisation of civil life and of international relations. Coming from different areas of study, the contributors to this volume discuss peace and critical peace education from a range of perspectives. The nature of peace, myths related to peace, the logistics of peace and peacemaking as well as the relation of peace and pedagogy in the broadest meaning of the term constitute the main themes of the book. The common thread that binds the chapters together is the distinction between genuine/authentic and false peace and the importance of critical reflection on actions that contribute to genuine peace.

*Modulators of hypothalamic-pituitary-gonadal axis for the control of spermatogenesis and sperm quality in vertebrates* Nov 12 2020 Spermatogenesis is a process highly conserved throughout vertebrate species and

is mainly under hypothalamic-pituitary control. It occurs in the testis in a stepwise fashion so that committed spermatogonia develop into spermatocytes and enter meiosis to produce round spermatids. These undergo a morphological transformation (spermiogenesis) into mature spermatids (i.e.: spermatozoa), which are differentially released from Sertoli cells (spermiation) depending on the species. In mammals, further transformations are necessary to form mature spermatozoa, suitable for fertilization. Gonadotropins, mainly responsive to gonadotropin-releasing hormone, control spermatogenesis through specific receptors located at the gonadal level. However, besides the endocrine route, the chemical mediators may also act locally in the gonad. Indeed, it is documented that testis physiology, including steroidogenesis and spermatogenesis, does not fully account for traditional endocrine control but an intragonadal network of autocrine and/or paracrine regulators also exists, whose activity, via cell-to-cell communication, regulates germ cell progression and development of qualitatively mature spermatozoa. Of note, a number of testicular modulators, such as gonadotropin releasing hormone, Kiss-peptin, endocannabinoids, has been early isolated in the brain and latest in the gonads. To fully understand precise mechanisms underlying the functional interaction of this intricate network, needless to say, it is crucially required to have detailed information about modulators and target cells. Through synergy between the respective specializations of all the authors, this topic reviewed emerging knowledge about neuroendocrine and local mediators controlling germ cell progression and maturation.

*Modern Climate Change Science* Feb 13 2021 Composed of two extensive sections, this book surveys important work in climate change science, mainly in the United States, and introduces contributions to the body of science that have arrived on the scene between January 2013 and February 2014. The opening section offers a broad examination of contemporary climate change science, with subsections on the Intergovernmental Panel on Climate Change (IPCC); Earth's energy imbalance and energy flow; carbon dioxide's role in the greenhouse effect; climate forcing, and climate feedbacks; Charles David Keeling and the Keeling Curve; the interfaces of atmosphere with oceans and land; paleoclimates and paleoclimatology; rising sea level; melting glaciers; deforestation; desertification; more violent storms, animal and human migration, extinction of species and more. The second section reviews and assesses the newest contributions to the body of research. Among the topics discussed are current and recent research on rising temperatures; the BEST study; the Global Historical Climatology Network (GHCN) and the National Climatic Data Center (NCDC); current and recent research on climate models, new research on global warming 56 million years ago; ecosystem impacts, projections of future climate and more. This book can be considered a bridge between the volumes of Farmer and Cook's *Climate Change Science: A Modern Synthesis*, as it arrives between the release of the first volume on the Physical Climate (2013) the second, on Earth's climate history, which is now in preparation. The book benefits a wide audience as its survey of the science of climate change provides an introduction to the subject and a discussion of current research in the field. The book may be used as a refresher for those who have had prior courses in climate science and related fields. Each chapter includes a comprehensive list of references for subjects discussed in the text.

The South China Sea Apr 29 2022 China's rise has upset the global balance of power, and the first place to feel the strain is Beijing's back yard: the South China Sea. For decades tensions have smoldered in the region, but today the threat of a direct confrontation among superpowers grows ever more likely. This important book is the first to make clear sense of the South Sea disputes. Bill Hayton, a journalist with extensive experience in the region, examines the high stakes involved for rival nations that include Vietnam, India, Taiwan, the Philippines, and China, as well as the United States, Russia, and others. Hayton also lays out the daunting obstacles that stand in the way of peaceful resolution. Through lively stories of individuals who have shaped current conflicts—businessmen, scientists, shippers, archaeologists, soldiers, diplomats, and more—Hayton makes understandable the complex history and contemporary reality of the South China Sea. He underscores its crucial importance as the passageway for half the world's merchant shipping and one-third of its oil and gas. Whoever controls these waters controls the access between Europe, the Middle East, South Asia, and the Pacific. The author critiques various claims and positions (that China has historic claim to the Sea, for example), overturns conventional wisdoms (such as America's overblown fears of China's nationalism and military resurgence), and outlines what the future may hold for

this clamorous region of international rivalry.

**Resilience** Jul 09 2020 Resilience has become a central concept in government policy understandings over the last decade. In our complex, global and interconnected world, resilience appears to be the policy 'buzzword' of choice, alleged to be the solution to a wide and ever-growing range of policy issues. This book analyses the key aspects of resilience-thinking and highlights how resilience impacts upon traditional conceptions of governance. This concise and accessible book investigates how resilience-thinking adds new insights into how politics (both domestically and internationally) is understood to work and how problems are perceived and addressed; from educational training in schools to global ethics and from responses to shock events and natural disasters to long-term international policies to promote peace and development. This book also raises searching questions about how resilience-thinking influences the types of knowledge and understanding we value and challenges traditional conceptions of social and political processes. It sets forward a new and clear conceptualisation of resilience, of use to students, academics and policy-makers, emphasising the links between the rise of resilience and awareness of the complex nature of problems and policy-making.

**The New US Strategy towards Asia** Jul 29 2019 Barack Obama's "rebalancing" or "pivot" strategy, intended to demonstrate continued US commitment to the Asia-Pacific region in a variety of military, economic, and diplomatic contexts, was launched with much fanfare in 2011. Implicit in the new strategy is both a focus on China - engagement with, and containment of - and a heavy reliance by the United States on its existing friends and allies in the region in order to implement its strategy. This book explores the impact of the new strategy on America's regional friends and allies. It shows how these governments are working with Washington to advance and protect their distinct national interests, while at the same time avoiding any direct confrontation with China. It also addresses the reasons why many of these regional actors harbour concerns about the ability of the US to sustain the pivot strategy in the long run. Overall, the book illustrates the deep complexities of the United States' exercise of power and influence in the region.

**Austerity Bites** Jan 27 2022 Since taking power in 2010, the Coalition Government in the United Kingdom has pushed through a drastic program of cuts to public spending, all in the name of austerity. The effects on large segments of the population, dependent on programs whose funding was slashed, have been devastating and will continue to be felt for generations. This timely book by journalist Mary O'Hara chronicles the real-world effects of austerity, removing it from the bland, technocratic language of politics and showing just what austerity means to ordinary lives. Drawing on hundreds of hours of first-person interviews with a wide range of people and, in the paperback edition, featuring an updated afterword by the author, the book explores the grim reality of living amid the biggest reduction of the welfare state in the postwar era and offers a compelling corrective to narratives of shared sacrifice.

**Regional Intervention Politics in Africa** Oct 24 2021 This book analyses regional interventions in African conflict spaces by engaging with political discourse theory. Interventions are a performance of agency, but what happens if interventions are performed by forces that scholars have hardly ever considered as relevant agents in this regard? Based on a study of regional politics towards the crises in Burundi and Zimbabwe, the book analyses how these interventions shaped and changed the emerging regional interveners. The book engages political discourse theory, proposing an understanding of intervention as a field, in which multiple and heterogeneous interpretations of the violence, the crisis, and the future post-conflict order 'meet'. It is not hard to imagine that this encounter is not harmonious per se but full of frictions. By making use of political discourse theory as a grammar for studying the complexity of an intervention, the focus is directed to the emerging subjectivities of regional interveners. This enables a view of regional interventions that neither reduces their subjectivity to universalist categories associated with 'liberal peace' nor overenthusiastically embraces them as the solution to all problems. This book will be of interest to students of international intervention, discourse theory, African politics, war and conflict studies, security studies and IR.

**Forests and Globalization** Aug 22 2021 The overarching contribution of this book is a review and assessment of the current and future impacts of globalization on the world's forests. The work has been developed by the "Resources for the Future" Task Force for the International Union of Forest Research Organizations (IUFRO). Four key themes are addressed: the effect of globalization on forests (including

future trade flows); plantations as the primary source of forest products and its consequences, including plant breeding and forest health; the effect of new products such as bio-products and markets on forests; and the emergence of forest ecosystem services and their impact on the landscape and human communities. These four themes are examined in detail to map out the impacts of these trends for forests throughout the world and at multiple scales, and how forest research needs to be adapted to address these trends. Overall, the volume provides a major synthesis of current thinking and knowledge on the topic for advanced students, as well as policy-makers and professionals in the forest sector.

**Talent Development in European Higher Education** Jan 15 2021 This book examines the much-debated question of how to unleash the potential of young people with promising intellectual abilities and motivation. It looks at the increasingly important topic of excellence in education, and the shift in focus towards the provision of programs to support talented students in higher education. It provides a systematic overview of programs for talented students at northern European higher education institutions (HEIs). Starting in the Netherlands, where nearly all HEIs have developed honors programs over the past two decades, the book explores three clusters of countries: the Benelux, the Nordic and the German-speaking countries. For each of these countries, it discusses the local culture towards excellence, the structure of the education system, and the presence of honors programs. In total, the book reviews the special talent provisions for nearly four million students at 303 higher education institutions in eleven countries. In addition, it offers an analysis of the reasons to develop such programs, a look into the future of honors education and a practical list of suggestions for further research. The Sirius Program assigned Marca Wolfensberger to carry out this research.

**Molecular mechanisms regulating cytotoxic lymphocyte development and function, and their associations to human diseases** Jun 07 2020 Nothing provided

**Participatory archives in a world of ubiquitous media** Sep 22 2021 The media environment of today is characterised by two critical factors: the development and adoption of ubiquitous mobile devices, and the strengthening of connectivity enabled by advances in ICT infrastructure and social media platforms. These developments have changed interactions and relationships between citizens and cultural custodians, as well as the ways archives are developed, kept, and used. Archives are now characterised by greater socialisations and networks that actively contribute to the signification of cultural heritage value. A range of new stakeholders, many of whom include the public, have sought to define what needs to be collectively remembered and forgotten. The world in which one or a few professional archivists worked on the sole mission of shaping how a society remembers is being displaced by a more democratised culture and the new generation of digitally networked archivists that are its natives. Using a range of case studies and perspectives, this book provides insights to the many ways that ubiquitous media have influenced archival practices and research, as well as the social and civic consequences of present-day archives. This book was published as a special issue of Archives and Manuscripts.

**Capacity Mechanisms in the EU Energy Market** Aug 10 2020 Ensuring an adequate, long-term energy supply is a paramount concern in Europe. EU member states now intervene by encouraging investment in generation capacity, offering an additional revenue stream for conventional power plants in addition to the existing, heavily subsidised investments in renewable energy sources. These capacity remuneration mechanisms (or simply capacity mechanisms) have become a hot topic in the wider European regulatory debate. European electricity markets are increasingly interconnected, so the introduction of a capacity mechanism in one country not only distorts its national market but may have unforeseeable consequences for neighbouring electricity markets. If these mechanisms are adopted by several member states with no supra-national coordination and no consideration for their cross-border impact, they may cause serious market distortions and put the future of the European internal electricity market at risk. This book provides readers with an in-depth analysis of capacity mechanisms, written by an expert team of policy-makers, economists, and legal professionals. It will be a first point of reference for regulators and policy-makers responsible for designing optimal capacity mechanisms in Europe, and will be an invaluable resource for academics and practitioners in the fields of energy, regulation, and competition.--

**Green Home Building** Mar 17 2021 Build a truly green home for the same total net cost as the conventional alternative

**Territorial Cohesion in Rural Europe** Oct 31 2019 This book reflects on how the economies, social characteristics, ways of life and global relationships of rural areas of Europe have changed in recent years. This reveals a need to refresh the concepts we use to understand, measure and describe rural communities and their development potential. This book argues that Europe has 'outgrown' many of the stereotypes usually associated with it, with substantial implications for European Rural Policy. Rural structural change and its evolving geography are portrayed through regional typologies and the concept of the New Rural Economy. Demographic change, migration, business networks and agricultural restructuring are each explored in greater detail. Implications for equality and social exclusion, and recent developments in the field of governance are also considered. Despite being a subject of active debate, interventions in the fields of rural and regional development have failed to adapt to changing realities and have become increasingly polarized. This book argues that rural/regional policy needs to evolve in order to address the current complex reality, partially reformulating territorial or place-based approaches, and the New Rural Paradigm, following a set of principles termed 'Rural Cohesion Policy'.

**People, Planet and Profit** Dec 26 2021 It is no longer the case that it's only society which benefits from CSR actions. A corporation actually helps itself when operating sustainably and does well because of its triple bottom line actions. The editors of People, Planet and Profit believe that whilst Corporate Social Responsibility is by now a familiar concept to academics or practitioners, insufficient attention has been paid to the end product of CSR in practice, which they define in terms of social and economic developmental effect. The contributions in this edited volume explain the developmental aspect of CSR from a conceptual perspective and provide empirical evidence of the impact of CSR delivery on stakeholders in different corners of the World. The emphasis is on what corporations take from and give back to their stakeholders whilst trying to behave in a corporately responsible fashion. Stakeholders, including employees, customers, host communities, governments and NGOs have diverse interests and expectations of CSR. This gives rise to questions about whether the activities corporations support are the ones today's stakeholders need; whether the CSR programmes being delivered are adequate; and about the relationship between the corporations' view of what constitutes CSR and that of the supposed beneficiaries. This book offers thoughtful answers to these questions and assesses the outcomes of corporate activities both in developed and developing countries and regions, in terms of economic progress and social and political advancement.

*The Neighbours of the European Union's Neighbours* Aug 29 2019 Should the European Neighbourhood Policy stop at the borders of the European Union's immediate neighbouring countries? This book is the first full length study of the 'neighbours of the EU's neighbours', a concept originally introduced by the European Commission with reference to Saharan Africa, the Middle East and Central Asia. These regions in the EU's broader neighbourhood are often perceived as an 'arc of crisis' from which manifold challenges emanate for Europe. This timely book takes stock of the state of the EU's cooperation with the neighbours of its neighbours and explores how the concept might help promote security, stability and prosperity beyond the countries which are formally part of the European Neighbourhood Policy. How can the EU create bridges between these regions? What instruments does the EU have at its disposal and how can it link them in order to respond to the challenges and overcome the current fragmentation? One of the conclusions is the suggestion to consider a pragmatic 'EU Strategy for the Neighbours of its Neighbours' which addresses the needs of the broader EU neighbourhood in a more systematic and consistent manner

and helps transform in the long run the 'arc of crisis' into another 'ring of friends'.

Astrocytic-neuronal-astrocytic Pathway Selection for Formation and Degradation of Glutamate/GABA May 07 2020 Endocrinological research early recognized the importance of intercellular interactions and realized the importance of glutamatergic and GABAergic signaling. In turn this signalling depends on elaborate interactions between astrocytes and neurons, without which neurons would be unable to produce, reuse and metabolize transmitter glutamate and GABA. Details of these subjects are described in this Research Topic by key investigators in this field. It focuses on the intricate and extremely swift pathway producing these amino acid transmitters from glucose in brain but also discusses difficulties in determining expression of some of the necessary genes in astrocytes and related processes in pancreatic islets. However, it does not discuss how closely associated astrocytes and neurons are anatomically, enabling these interactions. This is elegantly shown in this cover image, kindly provided by Professor Andreas Reichenbach (University of Leipzig, Germany).

International Trials and Reconciliation Feb 02 2020 Transitional justice is a burgeoning field of scholarly inquiry. Yet while the transitional justice literature is replete with claims about the benefits of criminal trials, too often these claims lack an empirical basis and hence remain unproven. While there has been much discussion about whether criminal trials can aid reconciliation, the extent to which they actually do so in practice remains under-explored. This book investigates the relationship between criminal trials and reconciliation, through a particular focus on the International Criminal Tribunal for the former Yugoslavia (ICTY). Using detailed empirical data - in the form of qualitative interviews and observations from five years of fieldwork - to assess and analyze the ICTY's impact on reconciliation in Bosnia-Herzegovina, Croatia and Kosovo, *International Trials and Reconciliation: Assessing the Impact of the International Criminal Tribunal for the former Yugoslavia* argues that reconciliation is not a realistic aim for a criminal court. They are, Janine Clark argues, only one part of a rich tapestry of justice, which must also include non-retributive transitional justice processes and mechanisms. Challenging many of the common yet untested assumptions about the benefits of criminal trials, this innovative and extremely timely monograph will be invaluable for those with interests in the theory and practice of transitional justice.

Labour Law in Russia May 19 2021 Russias transition towards a market economy in the early 1990s called for new approaches to the regulation of employment relations in the post-Soviet period in order to strike a balance between employers interests and employees rights in changed conditions. The adoption of the Labour Code of the Russian Federation (LC RF) in 2001 contributed to solving the issue only partly, as, in reality, it was passed as a compromise between different political forces, and consists of both provisions which can be implemented in the new context of the market economy and restrictions inherited from the planned economy. The recent and ever-changing socio-economic conditions, and the increasing complexity of the employer-employee relationship, which is a result of both globalization and technological progress, required the further development of Russian employment legislation. This resulted in substantial amendments being made to the original LC RF in 2006, with the majority of its provisions being profoundly revised. Nevertheless, a thorough analysis of the changes currently under way shows that many aspects concerning employment relations have still not been addressed sufficiently. The papers collected in the present volume of the ADAPT Labour Studies Book Series consider the recent developments of the legal regulation of employment relations as well as some closely related aspects from a historical and comparative perspective, in order to provide some insights into these issues and to examine current challenges.