

Submarine Cable Map 2017

This insightful book examines the growing role of China on the global stage by gauging the varying reactions of international spectators to Beijing's hugely significant Belt and Road Initiative. Laced with detailed empirical studies and an array of illustrative maps, Peter Rimmer assesses the domestic impact of the Initiative thus far and offers an astute appraisal of the imperial connotations of Beijing's global logistical project.

A conectividade é a espinha dorsal da transformação digital e, como tal, são fundamentais políticas e medidas regulatórias que promovam o acesso a serviços de comunicação de alta qualidade a preços competitivos. Esta avaliação fornece um exame abrangente dos setores de comunicações e radiodifusão do Brasil, destacando áreas para reforma regulatória e de política pública com vistas a garantir uma transformação digital bem-sucedida e inclusiva no país.

A global exploration of internet memes as agents of pop culture, politics, protest, and propaganda on- and offline, and how they will save or destroy us all. Memes are the street art of the social web. Using social media-driven movements as her guide, technologist and digital media scholar An Xiao Mina unpacks the mechanics of memes and how they operate to reinforce, amplify, and shape today's politics. She finds that the "silly" stuff of meme culture—the photo remixes, the selfies, the YouTube songs, and the pun-tastic hashtags—are fundamentally intertwined with how we find and affirm one another, direct attention to human rights and social justice issues, build narratives, and make culture. Mina finds parallels, for example, between a photo of Black Lives Matter protestors in Ferguson, Missouri, raising their hands in a gesture of resistance and one from eight thousand miles away, in Hong Kong, of Umbrella Movement activists raising yellow umbrellas as they fight for voting rights. She shows how a viral video of then presidential nominee Donald Trump laid the groundwork for pink pussyhats, a meme come to life as the widely recognized symbol for the international Women's March. Crucially, Mina reveals how, in parts of the world where public dissent is downright dangerous, memes can belie contentious political opinions that would incur drastic consequences if expressed outright. Activists in China evade censorship by critiquing their government with grass mud horse pictures online. Meanwhile, governments and hate groups are also beginning to utilize memes to spread propaganda, xenophobia, and misinformation. Botnets and state-sponsored agents spread them to confuse and distract internet communities. On the long, winding road from innocuous cat photos, internet memes have become a central practice for political contention and civic engagement. Memes to Movements unveils the transformative power of memes, for better and for worse. At a time when our movements are growing more complex and open-ended—when governments are learning to wield the internet as effectively as protestors—Mina brings a fresh and sharply innovative take to the media discourse.

Are you constantly online? Or are you offline sometimes? Are you offline if you are not interacting with your connected devices? Or if no data about you is being collected? Do you check Instagram and Twitter during dinner? Do you turn off your smartphone at night? Do you check work emails on vacation? Do you feel you have to disconnect regularly – to relax, to concentrate, or to protect your privacy? Or do you feel more relaxed when constantly connected because your loved ones, a work emergency, or the news are always at your fingertips? Why are some people – even within networked societies – still completely offline given the tremendous opportunities of the Internet? And what does it even mean to be online or offline in the age of hyper-connectivity? In ON/OFF, Sarah Genner assesses the risks and rewards of the anytime-anywhere Internet, focusing on digital divides, social relationships, physical and mental health, and data privacy. She discusses implications

for a variety of decision-makers in the world of work, in education, in families, and in politics. The author deconstructs the online/offline dichotomy and suggests the ON/OFF scale as a new theoretical framework for researchers and practitioners.

This book constitutes the refereed proceedings of the 14th International Joint Conference on E-Business and Telecommunications, ICETE 2017, held in Madrid, Spain, in July 2017. ICETE is a joint international conference integrating four major areas of knowledge that are divided into six corresponding conferences: International Conference on Data Communication Networking, DCNET; International Conference on E-Business, ICE-B; International Conference on Optical Communication Systems, OPTICS; International Conference on Security and Cryptography, SECYPT; International Conference on Signal Processing and Multimedia, SIGMAP; International Conference on Wireless Information Systems, WINSYS. The 17 full papers presented were carefully reviewed and selected from 195 submissions. The papers cover the following key areas of information and communication technologies, including data communication and networking, e-business and telecommunications: data communication networking; e-business; optical communication systems; security and cryptography; signal processing and multimedia applications; wireless networks and mobile systems.

The Nordic region attracts an increasing level of significant investments in new data centres. This seems to be no coincidence as the Nordics scores comparatively higher on factors such as "Reliable power supply", "Low energy prices", "Political stability", "Faster time-to-market" and "Abundance of energy and other resources" compared to more traditional European data centre regions. All factors that are deemed most important by data centre investors. This report estimates that the Nordics by 2025 could attract annual data centre construction investments in the order of EUR 2-4.3 bn. by 2025. This is based on the forecast of the future demand worldwide for data centre services – as well as the strong value proposition of the Nordic countries towards large datacenter investments.

How non-IT managers can turn IT from an expensive liability into a cost-effective competitive tool. Firms spend more on information technology (IT) than on all other capital assets combined. And yet despite this significant cash outlay, businesses often end up with IT that is uneconomical and strategically feeble. What is missing in many organizations' IT strategy is the business acumen of managers from non-IT departments. This book presents tools for non-IT managers to turn IT from an expensive liability into a cost-effective competitive tool. It equips readers with the concepts and analytical skills necessary to understand IT needs and opportunities from both sides of the business–IT divide. Each chapter opens with a jargon decoder–nontechnical explanations of the key ideas in the chapter—and ends with a checklist summarizing non-IT factors to consider in IT decisions. Chapters cover such topics as infusing competitive firepower into IT strategy; amalgamating software and data for a hard-to-duplicate competitive advantage; making choices that meet today's business needs without handicapping future strategy; establishing who decides what about IT strategies; sourcing IT and its challenges; protecting IT assets against disaster in ways that IT professionals cannot; and recognizing the business potential of emerging technologies. Examples are drawn from large corporations, small businesses, and nonprofits around the world. The book is suitable for use in the MBA core IT course, and is aimed especially at students in professional or executive MBA programs. It will also be a valuable reference for managers.

Strategic A2/AD in Cyberspace focuses on exclusion from cyberspace, or the ability of a state to be cut off entirely from cyberspace. Strategic anti-access and area denial (A2/AD) operations are common in other domains, but, before now, they have not been examined for their relevance to cyberspace. This book examines how strategic A2/AD operations can cut off states from cyberspace through attacks at either the physical or logic layers of cyberspace. The result of strategic cyber A2/AD operations could be catastrophic for modern economies, governments, military forces, and societies, yet there has been surprisingly little study of these threats to states' access to cyberspace. This

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book examines the implications of strategic cyber A2/AD operations for deterrence strategy and proposes a new view of how exclusion from cyberspace can be used as a coercive tool in diplomacy.

This edited volume explains the importance of regional public goods (RPGs) for sustainable development and shows why they are particularly important in the context of 21st-century international relations. By presenting a new and original data set and by presenting original essays by renowned scholars, this book lays the foundation for what will become an increasingly important focus for both economic development and international relations as well as for their intersection. The volume contains four parts. The first introduces the core issues and concepts that are explored throughout the book as well as a new and original data set on RPGs. The second part further develops specific concepts important for understanding 21st-century RPGs: regional leadership, alliances, networks, and outcomes. The third examines how cooperation takes place worldwide for a range of important RPGs. Finally, the fourth part discusses how public goods are produced in specific regions, stressing that each region has a distinct context and that these contexts overlap in a decentered "multiplex" manner. Global economic cooperation will be different in the 21st century, and this volume will be of interest to students and scholars of global governance, economic development, international political economy, sustainable development, and comparative regionalism.

This book presents high-quality research on the concepts and developments in the field of information and communication technologies, and their applications. It features 134 rigorously selected papers (including 10 poster papers) from the Future of Information and Communication Conference 2020 (FICC 2020), held in San Francisco, USA, from March 5 to 6, 2020, addressing state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of future research. Discussing various aspects of communication, data science, ambient intelligence, networking, computing, security and Internet of Things, the book offers researchers, scientists, industrial engineers and students valuable insights into the current research and next generation information science and communication technologies.

The emergence of mobile money and other new forms of payment has changed the sovereign foundations of money. Starting as a Department for International Development funded project in Kenya, mobile money has now spread to many developing countries. This book looks at the regulatory issues that mobile money poses, and the potential risks to the financial system. It undertakes a comparative study of mobile money regimes in Kenya, Malawi, Tanzania, and South Africa. Although the main study is on Malawi, the lessons learnt are valuable to Sub Saharan Africa in understanding the regulatory issues surrounding mobile money. The main argument that this book makes is that the traditional regulatory architecture of supervising the financial services is ill-suited to supervise new forms of money like mobile money. With no requirement for a bank account, mobile money is not subject to prudential regulation. Mobile money is now considered a key developmental tool to achieve financial inclusion among the poor, rural based, unbanked, and underbanked. As opposed to traditional additive forms of financial inclusion, mobile money is transformative. In most jurisdictions where it has been launched, mobile money has largely been regulated using light-touch, with regulation following innovation. This work, however, proposes an approach based on the concept of really responsive regulation. This approach is best suited to embrace mobile money as it passes from the pre-financial inclusion to the post-financial inclusion phases of its evolution. This book will appeal to students and academics in the financial regulation field.

In this collection, 17 leading scholars based in Solomon Islands, Fiji, Papua New Guinea, Timor-Leste, Australia, New Zealand, the United States and China analyse key dimensions of the changing relationship between China and the Pacific Islands and explore the strategic, economic and diplomatic implications for regional actors. The China Alternative includes chapters on growing great power competition in the region, as well as the response to China's rise by the US and its Western allies and the island countries themselves. Other chapters examine

key dimensions of China's Pacific engagement, including Beijing's programs of aid and diplomacy, as well as the massive investments of the Belt and Road Initiative. The impact of China's rivalry for recognition with Taiwan is examined, and several chapters analyse Chinese communities in the Pacific, and their relationships with local societies. The China Alternative provides ample material for informed judgements about the ability of island leaders to maintain their agency in the changing regional order, as well as other issues of significance to the peoples of the region. 'China's "discovery" of the diverse Pacific islands, intriguingly resonant of the era of European explorers, is impacting on this too-long-overlooked region through multiple currents that this important book guides us through.' —Rowan Callick, Griffith University
'The China Alternative is a must-read for all students and practitioners interested in understanding the new geopolitics of the Pacific. It assembles a stellar cast of Pacific scholars to deeply explore the impact of the changing role of China on the Pacific islands region. Significantly, it also puts the Pacific island states at the centre of this analysis by questioning the collective agency they might have in this rapidly evolving strategic context.' —Greg Fry, The Australian National University

With the increased digitisation of society comes an increased concern about who is left behind. From societal causes to the impact of everyday actions, *The Digital Disconnect* explores the relationship between digital and social inequalities, and the lived consequences of digitisation. Ellen Helsper goes beyond questions of digital divides and who is connected. She asks why and how social and digital inequalities are linked and shows the tangible outcomes of socio-digital inequalities in everyday lives. The book: Introduces the key theories and concepts needed to understand both 'traditional' and digital inequalities research. Investigates a range of socio-digital inequalities, from digital access and skills, to civic participation, social engagement, and everyday content creation and consumption. Brings research to life with a range of qualitative vignettes, drawing out the personal experiences that lay at the heart of global socio-digital inequalities. *The Digital Disconnect* is an expert exploration of contemporary theory, research and practice in socio-digital inequalities. It is also an urgent and impassioned call to broaden horizons, expand theoretical and methodological toolkits, and work collectively to help achieve a fairer digital future for all. Ellen J. Helsper is Professor of Digital Inequalities at the Department of Media and Communications at London School of Economics and Political Science.

Underwater wireless sensor networks (UWSN) are envisioned as an aquatic medium for a variety of applications including oceanographic data collection, disaster management or prevention, assisted navigation, attack protection, and pollution monitoring. Similar to terrestrial wireless sensor networks (WSN), UWSNs consist of sensor nodes that collect the information and pass it to a base station; however, researchers have to face many challenges in executing the network in an aquatic medium. *Energy-Efficient Underwater Wireless Communications and Networking* is a crucial reference source that covers existing and future possibilities of the area as well as the current challenges presented in the implementation of underwater sensor networks. While highlighting topics such as digital signal processing, underwater localization, and acoustic channel modeling, this publication is ideally designed for machine learning experts, IT specialists, government agencies, oceanic engineers, communication experts, researchers, academicians, students, and environmental agencies concerned with optimized data flow in communication network, securing assets, and mitigating security attacks.

Until recently, the Arctic was almost impossible for anyone other than indigenous peoples and explorers to traverse. Pervasive Arctic sea ice and harsh climatological conditions meant that the region was deemed incapable of supporting industrial activity or a Western lifestyle. In the last decade, however, that longstanding reality has been dramatically and permanently altered. Receding sea ice, coupled with growing geopolitical disputes over Arctic resources, territory, and transportation channels, has stimulated efforts to exploit newly-open waterways, to

paper looks at how some elements of the Bali Fintech Agenda could be used in Pacific island countries, which face significant financial-structural challenges.

This book combines the three dimensions of technology, society and economy to explore the advent of today's cloud ecosystems as successors to older service ecosystems based on networks. Further, it describes the shifting of services to the cloud as a long-term trend that is still progressing rapidly. The book adopts a comprehensive perspective on the key success factors for the technology – compelling business models and ecosystems including private, public and national organizations. The authors explore the evolution of service ecosystems, describe the similarities and differences, and analyze the way they have created and changed industries. Lastly, based on the current status of cloud computing and related technologies like virtualization, the internet of things, fog computing, big data and analytics, cognitive computing and blockchain, the authors provide a revealing outlook on the possibilities of future technologies, the future of the internet, and the potential impacts on business and society.

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This report contains the results from a research project aimed at identifying new capabilities for the future Royal Netherlands Navy (RNLN). With the type of naval operations and tasks for the period up to 2030-35 largely enduring, the current "regional power projection" profile of the Royal Netherlands Navy (RNLN) must be strengthened and renewed. We envisage the core of the future naval force to remain a versatile mix of surface and sub-surface combatants, shipborne helicopters and unmanned systems for intelligence purposes and extended force projection, modern amphibious forces and long-range land attack capability to counter Anti-Access and Area Denial (A2AD) threats. All main vessels should be ocean-going, able to navigate the main operating theaters in the European seas and the Carib under all conditions. But even while we expect that naval operations and tasks, as well as the overall force profile of the RNLN, will evolve rather than drastically change, the RNLN must substantially innovate — but not beyond recognition — its personnel, materiel, doctrines and processes, organization and structures.

What happens at the nexus of the digital divide and human trafficking? This book examines the impact of the introduction of new digital information and communication technology (ICT) – as well as lack of access to digital connectivity – on human trafficking. The different studies presented in the chapters show the realities for people moving along the Central Mediterranean route from the Horn of Africa through Libya to Europe. The authors warn against an over-optimistic view of innovation as a solution and highlight the relationship between technology and the crimes committed against vulnerable people in search of protection. In this volume, the third in a four-part series 'Connected and Mobile: Migration and Human Trafficking in Africa', relevant new theories are proposed as tools to understand the dynamics that appear in

mobile Africa. Most importantly, the editors identify critical ethical issues in relation to both technology and human trafficking and the nexus between them, helping explore the dimensions of new responsibilities that need to be defined. The chapters in this book represent a collection of well-documented empirical investigations by a young and diverse group of researchers, addressing critical issues in relation to innovation and the perils of our time.

This 28-chapter volume provides a comprehensive legal, economic and political analysis of the Belt and Road (BRI) initiative that has emerged since 2013 as the major facet of China's international economic policy.

Perkembangan suatu daerah tidak hanya bergantung pada kualitas sumber daya alam dan manusia, akan tetapi terdapat faktor yang tidak kalah penting yaitu arus pertukaran informasi. Saat ini dengan adanya inovasi dan teknologi terkini yang diterapkan pada internet membuat pertukaran informasi semakin kencang, dampaknya semua aspek kehidupan bergeser ke era digital, akan tetapi tidak semua tempat di Indonesia terjangkau dengan akses internet. Umumnya daerah yang tidak terjangkau layanan internet adalah daerah pedesaan, terpencil, terluar dan tertinggal. Salah satu penyebab akses internet yang tidak merata di Indonesia adalah faktor geografis. Dari segi geografis, Indonesia adalah negara yang terdiri dari 13.487 pulau. Kondisi ini memberikan tantangan tersendiri dalam membangun infrastruktur telekomunikasi di segala penjuru Indonesia. Tantangan tersebut berupa kecilnya angka kepadatan populasi penduduk di suatu wilayah, Infrastruktur pendukung terbatas, dan Tingginya biaya instalasi dan konsumsi energi perangkat telekomunikasi. Rendahnya kepadatan populasi penduduk adalah salah satu faktor yang menyebabkan kecilnya profit dari sudut pandang bisnis telekomunikasi, karena dengan teknologi komunikasi yang dipakai pada umumnya, akan sulit untuk mengembalikan biaya investasi di daerah tersebut. Atas dasar itu tidak semua lokasi terjangkau akses telekomunikasi. Dalam buku ini disajikan berbagai solusi dari hasil beberapa penelitian dengan pendekatan praktis, untuk mengatasi kesenjangan digital karena masalah infrastruktur telekomunikasi. Harapannya dapat membuka wawasan dan sebagai panduan dalam mengembangkan dan menerapkan solusi untuk mengurangi kesenjangan informasi digital di daerah rural.

Going Digital in Brazil analyses recent developments in Brazil's digital economy, reviews policies related to digitalisation and makes recommendations to increase policy coherence in this area.

Since the invention of the laser, our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology. New advances in fiber optic devices, components, and materials make it more important than ever to stay current. Comprising chapters drawn from the author's highly anticipated book Photonics: Principles and Practices, Fiber Optics: Principles and Practices offers a detailed and focused treatment for anyone in need of authoritative information on this critical area underlying photonics. Using a consistent approach, the author leads you step-by-step through each topic. Each skillfully crafted chapter first explores the theoretical concepts of each topic, and then demonstrates how these principles apply to real-world applications by guiding you through experimental cases illuminated with numerous illustrations. The book works systematically through fiber optic cables, advanced fiber optic cables, light attenuation in optical components, fiber optic cable types and

installations, fiber optic connectors, passive fiber optic devices, wavelength division multiplexing, optical amplifiers, optical receivers, opto-mechanical switches, and optical fiber communications. It also includes important chapters in fiber optic lighting, fiber optics testing, and laboratory safety. Containing several topics presented for the first time in book form, *Fiber Optics: Principles and Practices* is simply the most modern, detailed, and hands-on text in the field.

Like its Gulf neighbours, Bahrain has continued to offset the effects of the drop in oil prices with a host of measures, including moves towards subsidy reduction, now in place to ease the pressure. Despite the downturn, however, the country has continued to push ahead with many big-ticket projects. Counter-cyclical spending in the energy sector is expected to stand the broader economy in good stead in the years to come, as expansion boosts the country's refining capacity and provides a reliable supply of fuel for its heavy industries. Indeed, manufacturing continues to play a significant role, with the \$3bn project to build a sixth potline for Aluminium Bahrain representing the company's largest expansion since potline five came on-stream in 2005. The kingdom's financial sector has long been a dominant player in the region, and despite increasing competition from emerging financial centres in the region, continues to benefit from an advanced regulatory framework, an educated workforce and a relatively low-cost environment.

Telecom Times, an anniversary print issue of the online telco news portal. Following its first year of publication, the magazine's editor and founder Richard van der Draay presents a commemorative print issue.

A beautifully designed guidebook to the unnoticed yet essential elements of our cities, from the creators of the wildly popular 99% Invisible podcast

Connectivity is the backbone of the digital transformation, and as such, policies and regulatory measures that foster access to high-quality communication services at competitive prices are key. This review provides a comprehensive examination of Brazil's communication and broadcasting sectors, highlighting areas for regulatory and policy reform that can help ensure a successful and inclusive digital transformation.

Location, location-awareness, and location data have all become familiar and increasingly significant parts of our everyday mobile-mediated experiences. *Cultural Economies of Locative Media* examines the ways in which location-based services, such as GPS-enabled mobile smartphones, are socially, culturally, economically, and politically produced just as much as they are technically designed and manufactured. Rowan Wilken explores the complex interrelationships that mutually define new business models and the economic factors that emerge around, and structure, locative media services. Further, he offers readers insight into the diverse social uses, cultures of consumption, and policy implications of location, providing a detailed, critical account of contemporary location-sensitive mobile data. *Cultural Economies of Locative Media* delves into the ideas, technologies, contexts, and power relationships that define this scholarship, resulting in a rich portrait of locative media in all of its cultural and economic complexity. The authors of *VOYAGES IN WORLD HISTORY* never forget that history is made up of the stories of people. Each chapter of the text centers on a story -- a traveler's account that highlights the book's main theme, the constant

movement of people, goods, and ideas. The travelers include merchants, poets, rulers, explorers, soldiers, missionaries, and scholars, and their voyages provide a framework for each chapter that will capture students' interest and draw them into the stories of the people, places, and events crucial to understanding world history. Special features highlight connections across chapters, societies, and periods, helping students understand historical events in a global context. Available in the following split options: VOYAGES IN WORLD HISTORY, Third Edition Complete, Volume 1: To 1600, and Volume 2: Since 1500. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

We are all aware of social media and how it is seamlessly integrated into our private and public lives as everyday users, but this book aims to provide a deeper understanding of social media by asking questions about its place in our society, our culture and our economy.

We study the impact of technology on the reaction of financial markets to information, focusing on the foreign exchange market. We contrast the “thin-skinned” view that technological improvements cause markets to react more to new information with the “thick-skinned” view that they react less. We pinpoint exogenous technological changes using the timing of the connection of countries via the submarine fiber-optic cables used for electronic trading. Cable connections dampen the response of exchange rates to macroeconomic news, consistent with the “thick-skinned” hypothesis. This is in line with the view that technology eases access to information and reduces trend-following behavior. According to our estimates, cable connections reduce the reaction of exchange rates to U.S. monetary policy news by 50 to 80 percent. As the international economy globalises, there is a need for national infrastructure systems to adapt to form a global infrastructure system. This network of networks aids mobility between national systems as a means of supporting their territorial needs and preferences. This reflects a strategic approach to state infrastructuring as nations seek to utilise these physical systems to support and enhance their territoriality. Providing a thorough examination through the lens of economic infrastructure, the book addresses the forces of integration and fragmentation in global networks. This book explores the trend towards the development of regional infrastructure systems within the context of territorial strategy. Regional systems emerge out of states seeking to position themselves within the international system. Colin Turner identifies the diverse processes that are driving regional infrastructures, as well as examining the formal and informal patterns of integration that are shaping developments. This book is ideal for international political economy and regional development scholars who seek an advanced understanding of current regional infrastructure systems. It will also serve as a vital tool for practitioners who need to understand the implications for policy-making.

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