

Submarine Cable Map 2017

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.

Exploring power and participation in a connected world. Social media are all around us. For many, they are the first things to look at upon waking and the last thing to do before sleeping. Integrated seamlessly into our private and public lives, they entertain, inform, connect (and sometimes disconnect) us. They're more than just social though. In addition to our experiences as everyday users, understanding social media also means asking questions about our society, our culture and our economy. What we find is dense connections between platform infrastructures and our experience of the social, shaped by power, shifting patterns of participation, and a widening ideology of connection. This book introduces and examines the full scope of social media. From the social to the technological, from the everyday to platform industries, from the personal to the political. It brings together the key concepts, theories and research necessary for making sense of the meanings and consequences of social media, both hopefully and critically. Dr Zoetanya Sujon is a Senior Lecturer and Programme Director for Communications and Media at London College of Communication, University of the Arts London.

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Measuring the Digital Transformation: A Roadmap for the Future provides new insights into the state of the digital transformation by mapping indicators across a range of areas – from education and innovation, to trade and economic and social outcomes – against current digital policy issues, as presented in Going Digital: Shaping Policies, Improving Lives.

In 2019, the United States' trade war with China expanded to blacklist the Chinese tech titan Huawei Technologies Co. Ltd. The resulting attention showed the information and communications technology (ICT) firm entwined with China's political-economic transformation. But the question remained: why does Huawei matter? Yun Wen uses the Huawei story as a microcosm to understand China's evolving digital economy and the global rise of the nation's corporate power. Rejecting the idea of the transnational corporation as a static institution, she explains Huawei's formation and restructuring as a historical process replete with contradictions and complex consequences. She places Huawei within the international political economic framework to capture the dynamics of power structure and social relations underlying corporate China's globalization. As she explores the contradictions of Huawei's development, she also shows the ICT firm's complicated interactions with other political-economic forces. Comprehensive and timely, The Huawei Model offers an essential analysis of China's dynamic development of digital economy and the global technology powerhouse at its core.

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.

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.

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.

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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.

Critical infrastructures are the backbone of modern, interconnected economies. The disruption of key systems and essential services - such as telecommunications, energy or water supply, transportation or finance - can cause substantial economic damage. This report looks at how to boost critical infrastructure resilience in a dynamic risk landscape, and discusses policy

options and governance models to promote up-front resilience investments.

OECD Reviews of Digital Transformation: Going Digital in Colombia analyses recent developments of the digital economy in the country, reviews policies related to digitalisation and makes recommendations to increase policy coherence in this area. The report examines recent developments in infrastructures for the digital economy, telecom markets and related regulations and policies in Colombia.

The third edition of *Global Politics: A New Introduction* continues to provide a completely original way of teaching and learning about world politics. The book engages directly with the issues in global politics that students are most interested in, helping them to understand the key questions and theories and also to develop a critical and inquiring perspective. Completely revised and updated throughout, the third edition offers up-to-date examples engaging with the latest developments in global politics, including the Syrian war and the refugee crisis, fossil fuel divestment, racism and Black Lives Matter, citizen journalism, populism, and drone warfare. *Global Politics* examines the most significant issues in global politics – from war, peacebuilding, terrorism, security, violence, nationalism and authority to poverty, development, postcolonialism, human rights, gender, inequality, ethnicity and what we can do to change the world; offers chapters written to a common structure, which is ideal for teaching and learning, and features a key question, an illustrative example, general responses and broader issues; integrates theory and practice throughout the text, by presenting theoretical ideas and concepts in conjunction with a global range of historical and contemporary case studies. Drawing on theoretical perspectives from a broad range of disciplines, including international relations, political theory, postcolonial studies, sociology, geography, peace studies and development, this innovative textbook is essential reading for all students of global politics and international relations.

This book presents a radical rethinking of Border Studies. Framing the discipline beyond conventional topics of spatiality and territoriality, it presents a distinctly South Asian perspective – a post-colonial and post-partition region where most borders were drawn with political motives, ignoring the socio-cultural realities of the region and economic necessities of the people. The authors argue that while securing borders is an essential function of the state, in this interconnected world, crossing borders and border cooperation is also necessary. The book examines contemporaneous and topical themes like disputes of identity and nationhood, the impact of social media on Border Studies, trans-border cooperation, water-sharing between countries, and resolution of border problems in the age of liberalisation and globalisation. It also suggests ways of enhancing cross-border economic cooperation and connectivity, and reviews security issues from a new perspective. Well supplemented with case studies, the book will serve as an indispensable text for scholars and researchers of Border Studies, military and strategic studies, international relations, geopolitics, and South Asian studies. It will also be of great interest to think tanks and government agencies, especially those dealing with foreign relations.

If one uses Facebook, Facetime, Skype, Netflix, or any application of the internet internationally, a submarine cable is involved. Fibre optic cables bind the world together and computer server farms, maintained by major telecom and content companies, allow vast amounts of data to be stored and retrieved from the cloud. Not often appreciated is the fact that these server locations worldwide are connected by submarine fibre optic cables. In this sense, the cloud is beneath the sea. While submarine communication cables have been in steady use since 1850, their preeminent place in the modern world has never been as dominant and personal as now. Recently, calls have mounted in the context of marine biodiversity beyond national jurisdiction (BBNJ) for centralized control of submarine cables and for express or de facto diminishment of the freedoms related to them via the United Nations Convention on Law of the Sea, that have served the world's peoples for so long. In *International Submarine Cables and Biodiversity of Areas Beyond National Jurisdiction*, Douglas R. Burnett and Lionel Carter examine the time proven importance of the existing international treaties, the largely peer-reviewed science on the environmental interaction of submarine cables with high seas environments, and the current submarine cable issues in the context of the BBNJ debates.

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. This companion provides the most comprehensive and up-to-date comparative overview of the cyber-security strategies and doctrines of the major states and actors in Europe, North America, South America, Africa, and Asia. The volume offers an introduction to each nation's cyber-security strategy and policy, along with a list of resources in English that may be consulted for those wishing to go into greater depth. Each chapter is written by a leading academic or policy specialist, and contains the following sections: overview of national cyber-security strategy; concepts and definitions; exploration of cyber-security issues as they relate to international law and governance; critical examinations of cyber partners at home and abroad; legislative developments and processes; dimensions of cybercrime and cyberterrorism; implications of cyber-security policies and strategies. This book will be of much interest to students and practitioners in the fields of cyber-security, national security, strategic studies, foreign policy, and international relations.

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.

This book constructs a multidisciplinary approach to human security questions related to digitalisation in the European High North i.e. the northernmost areas of Scandinavia, Finland and North-Western Russia. It challenges the mainstream conceptualisation of cybersecurity and reconstructs it with the human being as the referent object of security.

This book constitutes the proceedings of the 21st International Conference on Passive and Active Measurement, PAM 2020, which was planned to be held in Eugene, Oregon, USA, in March 2020. Due to the Corona pandemic, the conference was organized as a virtual meeting. The 19 full papers presented in this volume were carefully reviewed and selected from 65 submissions. They were organized in topical sections named: active measurement; security; best practices and conformance; domain names; topology and routing; topology - alias

resolution; and Web.

The unprecedented Covid-19 crisis revealed the scale and scope of a new type of economy taking shape in front of our very eyes: the digital economy. This book presents a concise theoretical and conceptual framework for a more nuanced analysis of the economic and sociological impacts of the technological disruption that is taking place in the markets of goods and services, labour markets, and the global economy more generally. This interdisciplinary work is a must for researchers and students from economics, business, and other social science majors who seek an overview of the main digital economy concepts and research. Its down-to-earth approach and communicative style will also speak to businesses practitioners who want to understand the ongoing digital disruption of the market rules and emergence of the new digital business models. The book refers to academic insights from economics and sociology while giving numerous empirical examples drawn from basic and applied research and business. It addresses several burning issues: how are digital processes transforming traditional business models? Does intelligent automation threaten our jobs? Are we reaching the end of globalisation as we know it? How can we best prepare ourselves and our children for the digitally transformed world? The book will help the reader gain a better understanding of the mechanisms behind the digital transformation, something that is essential in order to not only reap the plentiful opportunities being created by the digital economy but also to avoid its many pitfalls.

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 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.

The Routledge Handbook of Transregional Studies brings together the various fields within which transregional phenomena are scientifically observed and analysed. This handbook presents the theoretical and methodological potential of such studies for the advancement of the conceptualization of global and area-bound developments. Following three decades of intense debate about globalization and transnationalism, it has become clear that border-crossing connections and interactions between societies are highly important, yet not all extend beyond the borders of nation-states or are of truly world-wide reach. The product of extensive international and interdisciplinary cooperation, this handbook is divided into ten sections that introduce the wide variety of topics within transregional studies, including Colonialism and Post-Colonial Studies, Spatial Formats, International Organizations, Religions and Religious Movements, and Transregional Studies and Narratives of Globalization. Recognizing that transregional studies asks about the space-making and space-formatting character of connections as well as the empirical status of such connections under the global condition, the volume reaches beyond the typical confines of area and regional studies to consider how areas are transcended and transformed more widely. Combining case studies with both theoretical and methodological considerations, The Routledge Handbook of Transregional Studies provides the first overview of the currently flourishing field of transregional studies and is the ideal volume for students and scholars of this diverse subject and its related fields.

This book analyzes the common set of obstacles to the development and integration of government Information and Communication Technology (ICT) projects and effective e-government initiatives in developing countries. It draws on the expertise and experience of more developed states in the Pacific, notably Australia and New Zealand, both highly rated in global rankings for e-government and active in a variety of e-government development projects across the region. There has been a general failure to identify priorities and align projects with local needs in ICT/e-government projects. Small Island Developing States (or SIDS) present a unique problem in terms of e-government. Not only do they suffer from a common set of barriers to ICT development such as their remoteness, geographical dispersion, moist tropical climates, largely rural populations, and lack of ICT capacity and infrastructure, but are also dependent on external agencies for investment, and must negotiate with powerful donors who have conflicting agendas. E-government is widely regarded as 'transformational', increasing efficiency, productivity, accountability, economic growth, and citizen involvement. But while the governments of SIDS are committed to harnessing ICTs for effective government and economic development, they face major challenges in establishing successful e-government initiatives, due to the problems outlined above, coupled with a lack of HR capacities and appropriate strategies and policies. Drawing on the experience of the states mentioned above, as well as regional quasi-governmental bodies, nongovernmental organizations (NGOs), aid agencies, and the private sector, the book will be of interest to researchers and students in the fields of e-government, public administration, political science, communication, information science, and social media.

This compact, highly engaging book examines the international legal regulation of both the conduct of States among themselves and conduct towards individuals, in relation to the use of cyberspace. Chapters introduce the perspectives of various stakeholders and the challenges for international law. The author discusses State responsibility and key cyberspace rights issues, and takes a detailed look at cyber warfare, espionage, crime and terrorism. The work also covers the situation of non-State actors and quasi-State actors (such as IS, or ISIS, or ISIL) and concludes with a consideration of future prospects for the international law of cyberspace. Readers may explore international rules in the areas of jurisdiction of States in cyberspace, responsibility of States for cyber activities, human rights in the cyber world, permissible responses to cyber attacks, and more. Other topics addressed include the rules of engagement in cyber warfare, suppression of cyber crimes, permissible limits of cyber espionage, and suppression of cyber-related terrorism. Chapters feature explanations of case law from various jurisdictions, against the background of real-life cyber-related incidents across the globe. Written by an internationally recognized practitioner in the field, the book objectively guides readers through on-going debates on cyber-related issues against the background of international law. This book is very accessibly written and is an enlightening read. It will appeal to a wide audience, from international lawyers to students of international law, military strategists, law enforcement officers, policy makers and the lay person.

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.

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.

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, SECRIPT; 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.

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 identify and extract desirable resources, and to leverage industrial, commercial, and transportation opportunities emerging throughout the region. This book presents papers from the NATO Advanced Research Workshop (ARW) Governance for Cyber Security and Resilience in the Arctic. Held in Rovaniemi, Finland, from 27-30 January 2019, the workshop brought together top scholars in cybersecurity risk assessment, governance, and resilience to discuss potential analytical and governing strategies and offer perspectives on how to improve critical Arctic infrastructure against various human and natural threats. The book is organized in three sections according to topical group and plenary discussions at the meeting on: cybersecurity infrastructure and threats, analytical strategies for infrastructure threat absorption and resilience, and legal frameworks and governance options to promote cyber resilience. Summaries and detailed analysis are included within each section as summary chapters in the book. The book provides a background on analytical tools relevant to risk and resilience analytics, including risk assessment, decision analysis, supply chain management and resilience analytics. It will allow government, native and civil society groups, military stakeholders, and civilian practitioners to understand better on how to enhance the Arctic’s resilience against various natural and anthropogenic challenges.

As the world grows increasingly interconnected, data communications has become a critical aspect of business operations. Wireless and mobile technology allows us to seamlessly transition from work to play and back again, and the Internet of things has brought our appliances, vehicles, and homes into the network; as life increasingly takes place online, businesses recognize the opportunity for a competitive advantage. Today’s networking professionals have become central to nearly every aspect of business, and this book provides the essential foundation needed to build and manage the scalable, mobile, secure networks these businesses require. Although the technologies evolve rapidly, the underlying concepts are more constant. This book combines the foundational concepts with practical exercises to provide a well-grounded approach to networking in business today. Key management and technical issues are highlighted and discussed in the context of real-world applications, and hands-on exercises reinforce critical concepts while providing insight into day-to-day operations. Detailed technical descriptions reveal the tradeoffs not presented in product summaries, building the analytical capacity needed to understand, evaluate, and compare current and future technologies.

'Readers will come away startled at just how fragile the online infrastructure we all depend on is and how much influence China wields – both technically and politically' – Jason Q. Ng, author of *Blocked on Weibo* 'An urgent and much needed reminder about how China's quest for cyber sovereignty is undermining global Internet freedom' – Kristie Lu Stout, CNN 'An important and incisive history of the Chinese internet that introduces us to the government officials, business leaders, and technology activists struggling over access to information within the Great Firewall' – Adam M. Segal, author of *The Hacked World Order* Once little more than a glorified porn filter, China's 'Great Firewall' has evolved into the most sophisticated system of online censorship in the world. As the Chinese internet grows and online businesses thrive, speech is controlled, dissent quashed, and attempts to organize outside the official Communist Party are quickly stamped out. But the effects of the Great Firewall are not confined to China itself. Through years of investigation James Griffiths gained unprecedented access to the Great Firewall and the politicians, tech leaders, dissidents and hackers whose lives revolve around it. As distortion, post-truth and fake news become old news James Griffiths shows just how far the Great Firewall has spread. Now is the time for a radical new vision of online liberty.

Beyond Safety argues that concerns about the ethical impossibility of individual safety in the face of risks with increasingly obvious global consequences alters representations of neoliberal contemporary life. As the climate crises in

the Caribbean and Australia, ongoing European refugee and American border crises, and, most recently, anxieties about Coronavirus illustrate, contemporary life is characterized by global connections that produce and reflect precarious outcomes and dangers. The ability to ignore risk or shift it to others underscores the fact that it is mitigable for particular segments of society while inescapable for others. Emily Johansen investigates depictions of global danger and safety in contemporary transnational fictional and popular texts—those characterized by a narrative or representational emphasis on border crossing and global interdependences. She demonstrates how these texts use risk to question and re-imagine the norms and practices of contemporary global citizenship. *Beyond Safety* thus brings together three of the central keywords of contemporary literary criticism of the last ten years (cosmopolitanism, precarity, neoliberalism) and shows how their intersection allows for a fuller conception of contemporary life and imagines a new global future.

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.

There are many things and services in our everyday life that we take for granted, and telecommunications is one of them. We surf the internet, send emails to friends and colleagues abroad, talk to family members in foreign countries over the phone, book airline seats and make banking transactions without actually realizing and appreciating the sophisticated technology that enables us to do so. This report covers the history and nature of cables, their special status in international law, their interaction with the environment and other ocean users and, finally, the challenges of the future. It is an evidence-based synopsis that aims to improve the quality and availability of information to enhance understanding and cooperation between all stakeholders. UNEP-WCMC in collaboration with the International Cable Protection Committee and UNEP has prepared this new report to provide an objective, factual description of the sub-marine cable industry and the interaction of submarine telecommunications (which route 95% of all international communications traffic) with the marine environment. This important report seeks to focus and guide deliberations and decision making on the wise conservation and protection of the oceans in concert with their sustainable management and use. 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.

The crypto wars have raged for half a century. In the 1970s, digital privacy activists prophesied the emergence of an Orwellian State, made possible by computer-mediated mass surveillance. The antidote: digital encryption. The U.S. government warned encryption would not only prevent surveillance of law-abiding citizens, but of criminals, terrorists, and foreign spies, ushering in a rival dystopian future. Both parties fought to defend the citizenry from what they believed the most perilous threats. The government tried to control encryption to preserve its surveillance capabilities; privacy activists armed citizens with cryptographic tools and challenged encryption regulations in the courts. No clear victor has emerged from the crypto wars. Governments have failed to forge a framework to govern the, at times conflicting, civil liberties of privacy and security in the digital age—an age when such liberties have an outsized influence on the citizen-State power balance. Solving this problem is more urgent than ever. Digital privacy will be one of the most important factors in how we architect twenty-first century societies—its management is paramount to our stewardship of democracy for future generations. We must elevate the quality of debate on cryptography, on how we govern security and privacy in our technology-infused world. Failure to end the crypto wars will result in societies sleepwalking into a future where the citizen-State power balance is determined by a twentieth-century status quo unfit for this century, endangering both our privacy and security. This book provides a history of the crypto wars, with the hope its chronicling sets a foundation for peace.

"In this book, Magnus Nordenman explores the emerging competition between the United States and its NATO allies and the resurgent Russian navy in the North Atlantic. This maritime region played a key role in the two world wars and the Cold War, serving as the strategic link between the United States and Europe that enabled the flow of reinforcements and supplies to the European Allies. Nordenman shows that while a conflict in Europe has never been won in the North Atlantic, it surely could have been lost there. With Vladimir Putin's Russia threatening the peace in Europe following the annexation of Crimea in 2014, the North Atlantic and other maritime domains around Europe are once again vitally important. But this battle will in many ways be different, Nordenman demonstrates, due to an overstretched U.S. Navy, the rise of disruptive technologies, a beleaguered NATO that woke up to the Russian challenge unprepared for high-end warfighting in the maritime domain, and a Russia commanding a smaller, but more sophisticated, navy equipped with long-range cruise missiles. Nordenman also provides a set of

recommendations for what the United States and NATO must do now in order to secure the North Atlantic in this new age of great power competition."

In our "wireless" world it is easy to take the importance of the undersea cable systems for granted, but the stakes of their successful operation are huge, as they are responsible for carrying almost all transoceanic Internet traffic. In *The Undersea Network* Nicole Starosielski follows these cables from the ocean depths to their landing zones on the sandy beaches of the South Pacific, bringing them to the surface of media scholarship and making visible the materiality of the wired network. In doing so, she charts the cable network's cultural, historical, geographic and environmental dimensions. Starosielski argues that the environments the cables occupy are historical and political realms, where the network and the connections it enables are made possible by the deliberate negotiation and manipulation of technology, culture, politics and geography. Accompanying the book is an interactive digital mapping project, where readers can trace cable routes, view photographs and archival materials, and read stories about the island cable hubs.

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