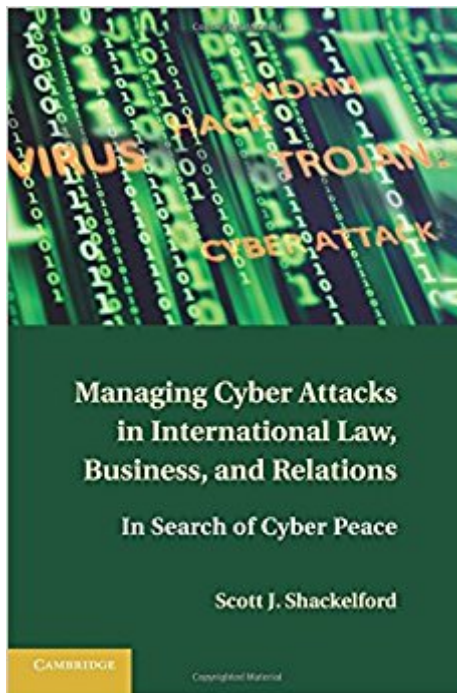




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# Managing Cyber Attacks In International Law, Business, And Relations: In Search Of Cyber Peace



## Synopsis

This book presents a novel framework to reconceptualize Internet governance and better manage cyber attacks. Specifically, it makes an original contribution by examining the potential of polycentric regulation to increase accountability through bottom-up action. It also provides a synthesis of the current state of cybersecurity research, bringing features of the cloak and dagger world of cyber attacks to light and comparing and contrasting the cyber threat to all relevant stakeholders. Throughout the book, cybersecurity is treated holistically, covering outstanding issues in law, science, economics, and politics. This interdisciplinary approach is an exemplar of how strategies from different disciplines as well as the private and public sectors may cross-pollinate to enhance cybersecurity. Case studies and examples illustrate what is at stake and identify best practices. The book discusses technical issues of Internet governance and cybersecurity while presenting the material in an informal, straightforward manner. The book is designed to inform readers about the interplay of Internet governance and cybersecurity and the potential of polycentric regulation to help foster cyber peace.

## Book Information

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## Customer Reviews

"'Interdisciplinary' is often overused to the point of being meaningless, but Shackelford truly demonstrates the real value of practical, truly interdisciplinary thinking that is required to confront the escalating challenges of international cyber risks. Piecemeal approaches of only policy, technology, or geography are inadequate to the challenge, and Shackelford's background and expertise shine through in timely and useful guidance for the many of us who deal with these

challenges every day." Brad Wheeler, Vice President for IT and CIO, Indiana University

"Professor Scott Shackelford's *Managing Cyber Attacks in International Law, Business, and Relations* is the first work to deftly surmount the interdisciplinary barriers that have so hobbled effective discourse in the stove-piped field of cyber security. His argument for employing polycentric governance to securing 'cyber peace' is both novel and thought-provoking - it is out-of-the-box thinking at its best. While every reader may not be convinced by Shackelford's vision, all will be challenged to revisit their own views on the subject." Michael Schmitt, Director, Stockton Center for the Study of International Law, Naval War College, and Director, Tallinn Manual and Tallinn 2.0 projects

"Shackelford tackles the complexities of cyber policy formulation and in a time when others are focusing too much on cyber war, he offers a fresh route to achieve cyber peace." Richard A. Clarke, former National Coordinator for Security, Infrastructure Protection, and Counter-terrorism for the United States, and author of *Cyber War: The Next Threat to National Security and What to Do About It*

"Scott Shackelford's *Managing Cyber Attacks in International Law, Business, and Relations* is a must-read for anyone interested in cybersecurity. By turns informative, yet hopeful, it provides a good outline of one potential avenue to cyber peace. Shackelford's book is thought-provoking and innovative, even when you disagree with him." Paul Rosenzweig, Georgetown Professor and former Deputy Assistant Secretary for Policy, Department of Homeland Security

"Professor Scott Shackelford's book is a timely intervention to press for cyber peace at a time when many nations, global institutions and enterprises are threatened by cyberattacks. I urge all readers of this excellent treatise to take its lessons to heart and seek greater multistakeholder cooperation to combat the growing array of cyber threats around the world ... Shackelford ably explores the dynamics of cyber threats and the security implications of fractured Internet governance, the weapons that are continuously evolving to strike at the vulnerabilities in cyberspace, and the urgent need to secure critical national infrastructure in the digital age and embrace cybersecurity best practices in order to prevent cyber war and secure cyber peace." Dr Hamadoun I. Touré, Secretary-General, International Telecommunication Union (from the Foreword)

"Amid a growing collection of narrow, stove-piped treatments of the topic of cyber security, Professor Shackelford offers a truly holistic look at one of the world's most pressing security dilemmas. Equal parts law, politics, and business, this compelling text is essential reading for anyone interested in gaining a more complete and informed perspective on cyber security. Shackelford impressively reduces the formidable legal and technical barriers to understanding this challenging subject, all the while maintaining an admirably high level of sophistication and nuance." Sean Watts, Creighton University School of Law, and co-author of the Tallinn Manual on the International Law Applicable to Cyber Warfare

"Scott

Shackelford is the rare scholar with expertise in the practical functioning of the Internet, its commercial and communication context, and the international law essential to governing this truly global phenomenon. The value of his expertise is seen in the goal of his book - getting the world to focus on cyber peace instead of nihilistic cyber war." Mary Ellen O'Connell, Robert and Marion Short Professor of Law, University of Notre Dame"Making and maintaining cyber peace is [a] compelling international challenge. This book affords a fresh and original approach to the vexed problem of dealing with cyber attacks in a world grown wary of new international treaties and with lax to non-existent enforcement mechanisms for such law as does apply. Shackelford extends the model of polycentric governance to the arena of cybersecurity, recommending that the partial vacuum of norms be filled with a wide variety of security and enforcement structures, from bilateral treaties and regional partnerships to industry and trade organizations. A must-read book for every stakeholder." Don Howard, Director, Reilly Center for Science, Technology, and Values, University of Notre Dame

This book presents a novel framework to reconceptualize Internet governance and better manage cyber attacks. It makes an original contribution by examining the potential of polycentric regulation to increase accountability through bottom-up action. Throughout the book, cybersecurity is treated holistically, covering outstanding issues in law, science, economics, and politics.

In the complexities of an ever-changing cybersecurity landscape, Dr. Shackelford builds a persuasive case for examining the debate through the lens of collaborative Internet governance. This work assesses cyber attacks as a source of instability to international peace and security, and envisions an opportunity for stakeholders at multiple levels to pave the way for a "cyber peace." The book provides myriad, diverse case studies and a thorough, historical examination of cyberspace highlighting the evolution of threats to the system and the role of actors, both private and public, in combatting cyber attacks. Shackelford reinforces this empirical account with an accessible application of interdisciplinary theory in law, business management, and international relations. Central to the book's thesis of an attainable cyber peace, Shackelford employs the polycentric analysis model of bottom-up governance pioneered by Professor Elinor Ostrom. The end result is an impressive and ambitious contribution to the field that lays the foundation for polycentric regulation to inform policy and practice in economics, politics, law, and science. This is a must-read for international policymakers, security experts, corporate managers, and interested academics alike.

I cannot get enough from this book. It is a must to read. I share the author's vision, concepts and ideas. There is nothing like it in the market.

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