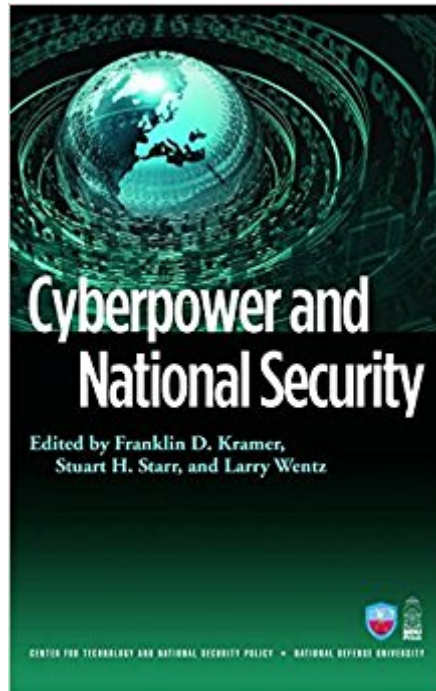


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# Cyberpower And National Security



## Synopsis

The cyber domain is undergoing extraordinary changes that present both exceptional opportunities to and major challenges for users of cyberspace. The challenges arise from the malevolent actors who use cyberspace and the many security vulnerabilities that plague this sphere. Exploiting opportunities and overcoming challenges will require a balanced body of knowledge on the cyber domain. Cyberpower and National Security assembles a group of experts and discusses pertinent issues in five areas. The first section provides a broad foundation and overview of the subject by identifying key policy issues, establishing a common vocabulary, and proposing an initial version of a theory of cyberpower. The second section identifies and explores possible changes in cyberspace over the next fifteen years by assessing cyber infrastructure and security challenges. The third section analyzes the potential impact of changes in cyberspace on the military and informational levers of power. The fourth section addresses the extent to which changes in cyberspace serve to empower key entities such as transnational criminals, terrorists, and nation-states. The final section examines key institutional factors, which include issues concerning governance, legal dimensions, critical infrastructure protection, and organization. Cyberpower and National Security frames the key issues concerned and identifies the important questions involved in building the human capacity to address cyber issues, balancing civil liberties with national security considerations, and developing the international partnerships needed to address cyber challenges. With more than two dozen contributors, Cyberpower and National Security covers it all.

## Book Information

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## Customer Reviews

"Cyberpower security is now one of the major national security problems facing the United States. This book recognizes and emphasizes the need for the government to develop a holistic approach to cyberpower; without this awareness and commitment, our national security is in jeopardy." — Lieutenant General Harry D. Raduege, Jr., USAF (Ret.), Chairman, Deloitte Center for Network Innovation (Lieutenant General Harry D. Raduege, Jr., USAF (Ret.)) "It's about time! After nearly 20 years, finally, a well-thought-out, analytical compendium of the current state of the art. The challenge is implementing these ideas in a meaningful manner that provides true cybernational security against a world of asymmetric actors. This is going to be one of my primary references for years to come." — Winn Schwartau, Founder, InfowarCon (Winn Schwartau) "National Defense University [NDU] is the trailblazer in thinking about cyberpower. This book and the workshops NDU convened while it was drafted provide some of the absolutely best thinking around on how cyber is reshaping the exercise of power and what that will mean for American security." — Dr. James A. Lewis, Technical Director, Center for Strategic and International Studies Commission on Cybersecurity for the 44th Presidency (Dr. James A. Lewis) "This book not only offers an inside look at military cyberpower, tactics, and strategies, but also gives a unique look at cyber deterrence, cyber law, and opportunities for future research. In today's cyber environment, the United States must work diligently to not only keep up with our near-peer competitors, but to stay one step ahead of them. Cyberpower and National Security explores policy issues, theories, trends, and future technologies that can give the United States that edge in the cyber domain" — Major General William T. Lord, USAF, Commander, Air Force Cyberspace Command (Provisional) (Major General William T. Lord) "Experts in the field of cyberpower address a range of issues arising from the use of cyberspace by malevolent actors and the many security vulnerabilities that plague this sphere. Both the theory and practical application of cyberpower are discussed." — Survival (Survival 2009-08-05)

Franklin D. Kramer is a distinguished research fellow in the Center for Technology and National Security Policy at the National Defense University. He served as the assistant secretary of defense for international security affairs from 1996 to 2001. Stuart H. Starr is also a distinguished research fellow in the Center for Technology and National Security Policy at the National Defense University. He concurrently serves as the president of the Barcroft Research Institute. Larry Wentz is a senior research fellow in the Center for Technology and National Security Policy at the National Defense

University.

It's a good book but it's not written as a starter book for cyber study. Further, many of the chapters start with the same introduction to the world of cyber and should have been edited to be less repetitive. Good information in here but if you want a more accessible and basic introduction, try this one— *Cyber War: The Next Threat to National Security and What to Do About It*

The National Defense University, the sponsor of this book, has produced an excellent collaboration on the related subjects of Cyberspace and Cyberpower and their influence on National Security. The authors selected for this effort appear remarkably competent for the task and have together produced a highly informative and useful book. Unlike so many books in this genre, this book begins with an accurate and well developed definition of "cyberspace" that brings the concept from a vague buzzword to a concrete multi-tiered system. The authors of this book are particularly adept at identifying and analyzing the layers and protocols that constitute cyberspace. Perhaps most importantly one chapter discusses the role of the Department of Defense developed Global Information Grid (GIG) which is base for military use of cyberspace. Although the book makes a valid reference to the misnamed Global Network, it fails to note that the GIG actually is a component of this network. Still it nails the concept of cyberspace very accurately. Given its sponsor the book of course devotes a good deal of attention to the military use of cyberspace particularly in its central role in the latest iteration of command and control doctrine called 'Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance' (C4ISR) which the basis for the "network centric warfare" concept which has been widely adopted by the U.S. Navy and Air Force. Still the book also includes information of considerable importance to non-military applications of cyberspace and the concept of civil infrastructure protection. This leads to the concept of cyberwar in which an enemy tries disrupt or destroy targeted military and civilian computer networks by means of hostile computer systems. The prospect of cyberwar is the foundation for one of the most interesting series of discussions in this book on the subject of "cyberpower." The late U.S. Navy Admiral Arthur Cebrowski was a strong advocate for the evolution of naval command and decision systems to C4ISR systems. He also had a very significant idea on cyberspace, which he argued was the new "commons" on which 21st Century commerce would depend. This represented a modernization of A.T. Mahan's concept that the sea represented the 'commons' on which maritime commerce was based. ("Transforming Military Force", Praeger 2007). In this book it is argued that cyberpower is analogous to sea power and a 21st Century

mission of the U.S. Military is to acquire and maintain control over cyberspace much as it remains the Navy and Air Force missions to acquire and maintain control over the sea and air. This book is one the most complete and technically accurate books written to date on the increasingly important issues of cyber warfare and cyber security.

Pretty good book, so far. Using the book for my Masters Degree program.

This was one of the few books I've read on cyber policies that doesn't seem to have an apparent axe to grind. It lacks the hysterics and political agenda a number of other recent books have, and it is a very good tutorial on the various facets of "cyberwar" from political, military, economic, technical and legal perspectives. Definitely a must for the professional, as well as those seeking a primer on this subject(s).

Great book, great insight

Excellent book. Hopefully will be updated soon!

Very Good

These days, it is really difficult to find one book that covers both technical and academic perspective. I think the most important facts about cyber power and national security could be delivered through this book.

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