CYBERSPACE
AND NATIONAL
SECURITY

Threats, Opportunities, and Power
in a Virtual World

DEREK S. REVERON
Editor

Georgetown University Press / Washington, DC
CONTENTS

List of Illustrations vii
Acknowledgments ix

PART I: THINKING ABOUT CYBER

CHAPTER 1
An Introduction to National Security and Cyberspace 3
Derek S. Reveron

CHAPTER 2
Speculative Security 21
Patrick Jagoda

CHAPTER 3
Operational Considerations in Cyber Attack and Cyber
Exploitation 37
Herbert Lin

CHAPTER 4
Joining Cybercrime and Cyberterrorism: A Likely Scenario 57
Steven Bucci

PART II: ARMED CONFLICT AND CYBER
DEFENSE

CHAPTER 5
Inter arma silent leges Redux? The Law of Armed Conflict and Cyber
Conflict 71
David P. Fidler

CHAPTER 6
The Emerging Structure of Strategic Cyber Offense, Cyber
Defense, and Cyber Deterrence 89
Richard B. Andres
CHAPTER 7
A New Framework for Cyber Deterrence  
Jeffrey R. Cooper  

CHAPTER 8
Cybered Conflict, Cyber Power, and Security Resilience as Strategy  
Chris Demchak  

PART III: NATIONAL APPROACHES TO CYBERSECURITY AND CYBERWAR

CHAPTER 9
Persistent Enemies and Cyberwar: Rivalry Relations in an Age of Information Warfare  
Brandon Valeriano and Ryan Maness  

CHAPTER 10
Competing Transatlantic Visions of Cybersecurity  
James Joyner  

CHAPTER 11
The Bear Goes Digital: Russia and Its Cyber Capabilities  
Nikolas K. Gvosdev  

CHAPTER 12
China in Cyberspace  
Nigel Inkster  

CHAPTER 13
Toward a Theory of Cyber Power: Strategic Purpose in Peace and War  
John B. Sheldon  

CHAPTER 14
Conclusion  
Derek S. Reveron  

Contributors  

Index