Contents

1 Introduction and Policy Summary 1

Overview 1 Safeguarding Networked Information 6 Policy Issues and Options 8

2 Safeguarding Networked Information 25

Safeguards for Networked Information 26 Institutions That Facilitate Safeguards for Networked Information 40 Government's Role in Providing Direction 63

3 Legal Issues and Information Security 69

Electronic Commerce 70 Protection of Information Privacy and the Problem of Transborder Data Flow 78 Digital Libraries 96

4 Government Policies and Cryptographic Safeguards 111

Importance of Cryptography 115
Government Concerns and Information
Safeguards 128
Guidance on Safeguarding Information in Federal
Agencies 132
U. S. Export Controls on Cryptography 150
Safeguards, Standards, and the Roles of NIST and
NSA 160
Strategic and Tactical Congressional Roles 174



APPENDIXES

- A Congressional Letters of Request 185
- B Computer Security Act and Related Documents 189
- C Evolution of the Digital Signature Standard 215
- D Workshop Participants 223
- **E Reviewers and Other Contributors 226**

INDEX 229