Contents

	viii
About the Series	ix
Preface	xviii
About the Author	XVIII
THE BOMB	
How Close Is the Danger? with Frederick Seitz	3
The Hydrogen Bomb	12
Brighter Than a Thousand Suns	23
Ultimate Catastrophe?	30
ARMS CONTROL	
The Case for Ending Nuclear Tests	37
Disarmament and Strategy	54
Antiballistic-Missile Systems with Richard L. Garwin	71
Meaningless Superiority	87
We Are Not Inferior to the Soviets	90
The Five-Year War Plan	99

Chernobyl

CONTENTS	vii
FIVE PHYSICISTS	9
J. Robert Oppenheimer	221
Freeman Dyson	231
Herman W. Hoerlin with Donald M. Kerr and Robert A. Jeffries	234
Paul P. Ewald with H.J. Juretschke, A.F. Moodie, and H.K. Wagenfeld	236
Richard P. Feynman	239
ASTROPHYSICS	
Energy Production in Stars	245
How a Supernova Explodes with Gerald Brown	265
Acknowledgments	279
Index	283

Debate: Elusive Security with Kurt Gottfried, response by Malcolm Wallop	102
Space-Based Ballistic-Missile Defense with Richard L. Garwin, Kurt Gottfried, and Henry W. Kendall	. 113
The Technological Imperative	132
Reducing the Risk of Nuclear War with Robert S. McNamara	138
Chop Down Nuclear Arsenals	151
THE FREEZE	
The Value of a Freeze with Franklin A. Long	161
Debate: Bethe vs. Teller response by Edward Teller	164
After the Freeze Referendum with Franklin A. Long	169
ADVICE AND DISSENT	
Science and Morality with Donald McDonald	175
Back to Science Advisors with John Bardeen	183
NUCLEAR POWER	15
The Necessity of Fission Power	187
Debate: Nuclear Safety response by Frank von Hippel	206

214