## **CONTENTS**

Fo	rewordvii	
1.	Pakistan's Nuclear Woes  Henry D. Sokolski1	
I: ISLAMABAD'S PROLIFERATING PAST		
2.	Kahn's Nuclear Exports: Was There a State Strategy?  Bruno Tertrais	
3.	Could Anything Be Done to Stop Them? Lessons from Pakistan's Proliferating Past George Perkovich	
II: MAINTAINING SOUTHWEST ASIAN DETERRENCE85		
4.	Pakistan's "Minimum Deterrent" Nuclear Force Requirements Gregory S. Jones	
5.	Islamabad's Nuclear Posture: Its Premises and Implementation  Peter R. Lavoy	
6.	Fissile Materials in South Asia and the Implications of the U.SIndia Nuclear Deal  Zia Mian, A. H. Nayyar, R. Rajaraman, and M. V. Ramana	

III. PAKISTAN'S NEXT SET OF NUCLEAR			
	HEADACHES	219	
7.	Preventing Nuclear Terrorism in Pakistan: Sabotage of a Spent Fuel Cask or a Commerc Irradiation Source in Transport  Abdul Mannan		
8.	Security Issues Related to Pakistan's Future Nuclear Power Program Chaim Braun	277	
9.	Bad Options: Or How I Stopped Worrying and Learned to Live with Loose Nukes  Thomas Donnelly	347	
ΑĒ	BOUT THE CONTRIBUTORS	369	

## **FOREWORD**

This volume was completed just before Pakistani President Musharraf imposed a state of emergency in November 2007. The political turmoil that followed raised concerns that Pakistan's nuclear assets might be vulnerable to diversion or misuse. This book, which consists of research that the Nonproliferation Policy Education Center (NPEC) commissioned and vetted in 2006 and 2007, details precisely what these worries might be.

Dr. Ashley Tellis of the Carnegie Endowment for International Peace and Dr. Peter Lavoy, now the National Intelligence Officer for Southwest Asia at the National Intelligence Council, were instrumental in the selection of authors as well as producing original research. Thanks is also due to Ali Naqvi and Tamara Mitchell of NPEC's staff who helped organize the workshop at which the book's contents were discussed and who helped prepare the book manuscript. Finally, special thanks is due to Professor Douglas C. Lovelace, Jr., Ms. Marianne Cowling, and Ms. Rita Rummel of the Strategic Studies Institute (SSI). This is the ninth in a series of edited volumes NPEC has produced with SSI. To the book's authors and all who made this book possible, NPEC is indebted.

Henry Sokolski Executive Director The Nonproliferation Policy Education Center