

Contents

1	Global Climate Change and the Mitigation Challenge.....	1
	Frank T. Princiotta	
2	Coal and Coal/Biomass-Based Power Generation.....	51
	James R. Katzer	
3	Coal and Biomass to Liquid Fuels.....	89
	James R. Katzer	
4	The Role of Nuclear Power in Reducing Greenhouse Gas Emissions.....	129
	Anthony Baratta	
5	Renewable Energy: Status and Prospects – Status of Electricity Generation from Renewable Energy.....	157
6	Mobile Source Mitigation Opportunities.....	191
	Michael P. Walsh	
7	Buildings: Mitigation Opportunities with a Focus on Health Implications	225
	Robert Thompson, James Jetter, David Marr, and Clyde Owens	
8	Reduction of Multi-pollutant Emissions from Industrial Sectors: The U.S. Cement Industry – A Case Study.....	241
	Ravi K. Srivastava, Samudra Vijay, and Elineth Torres	
9	Geoengineering: Direct Mitigation of Climate Warming.....	273
	Brooke L. Hemming and Gayle S.W. Hagler	
10	Research, Development, Demonstration and Deployment Issues in the Power Sector	301
	Bruce Rising	

11	The Role of Technology in Mitigating Greenhouse Gas Emissions from Power Sector in Developing Countries: The Case of China, India, and Mexico	345
	Samudra Vijay and Ananth Chikkatur	
12	Potential Adverse Environmental Impacts of Greenhouse Gas Mitigation Strategies	377
	C. Andrew Miller and Cynthia L. Gage	
	Index	417