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Nota di contenuto	Contents; Preface and Acknowledgments; Chapter 1. Introduction; Linking Coal and Health; Clean Coal; Advice to Readers; References; Chapter 2. Coal; References; Chapter 3. The Pollutants; Overview of Exposure to Hazardous Air Pollutants; Hazardous Air Pollutants and the Clean Air Act; Mercury; References; Chapter 4. From Mine to Ash; Mining Coal; Washing Coal; Transporting Coal; Burning Coal; Disposing of Waste; References; Chapter 5. Mitigation of Pollutants from Burning Coal; Pollutants Other Than Carbon Dioxide; Carbon Dioxide Capture and Storage; References Chapter 6. Pathophysiology: How Pollution Damages Cells and Tissues The Central Role of the Lung; Reactive Oxygen Species and Oxidative Stress; Air Pollutants and the Central Nervous System; Resistance to Oxidative Stress; Ozone, and Oxides of Nitrogen and Sulfur; Mercury; References; Chapter 7. Basic Health Considerations; Lessons from Evidence-Based Medicine; Effects of Pollutants on General Health; The Bottom Line; References; Chapter 8. Diseases of the Respiratory System; Asthma; Chronic Obstructive Pulmonary Disease (COPD): Chronic Bronchitis and Emphysema; Cancer of the Lung and Bronchus Coal Workers ' Pneumoconiosis or Black Lung Disease Summary; References; Chapter 9. Diseases of the Cardiovascular System; Atherosclerotic Cardiovascular Disease; Controlled Studies of Humans

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Sommario/riassunto	Why our dependence on coal-produced energy is bad for our health: a physician maps the connections of burning coal to death and disease.