

CONTENTS

OVERVIEW

Energy in our Future, <i>Harrison Brown</i>	1
---	---

ENERGY SUPPLY AND DISTRIBUTION : RESOURCES AND TECHNOLOGIES

Coal : Energy Keystone, <i>Richard A. Schmidt and George R. Hill</i>	37
Production of High-Btu Gas from Coal, <i>H. R. Linden, W. W. Bodle, B. S. Lee, and K. C. Vyas</i>	65
Clean Liquids and Gaseous Fuels from Coal for Electric Power, <i>S. B. Alpert and R. M. Lundberg</i>	87
The Nuclear Fuel Cycle, <i>E. Zebroski and M. Levenson</i>	101
Solar Energy, <i>Frederick H. Morse and Melvin K. Simmons</i>	131
Geothermal Energy, <i>Paul Kruger</i>	159
Oil Shale : The Prospects and Problems of an Emerging Energy Industry, <i>Stephen Rattien and David Eaton</i>	183
Nuclear Fusion, <i>R. F. Post</i>	213
Waste Materials, <i>Clarence G. Golueke and P. H. McGauhey</i>	257
Hydrogen Energy, <i>D. P. Gregory and J. B. Pangborn</i>	279
Energy Storage, <i>Fritz R. Kalhammer and Thomas R. Schneider</i>	311
Advanced Energy Conversion, <i>Edward V. Somers, Daniel Berg, and Arnold P. Fickett</i>	345

ENERGY AND THE ECONOMY

The Energy Industry and the Capital Market, <i>William E. Pelley, Richard W. Constable, and Herbert W. Krupp</i>	369
The Price of Energy, <i>Diana E. Sander</i>	391
Energy System Modeling and Forecasting, <i>Kenneth C. Hoffman and David O. Wood</i>	423

ENERGY CONSERVATION

Raising the Productivity of Energy Utilization, <i>Lee Schipper</i>	455
Potential for Energy Conservation in Industry, <i>Charles A. Berg</i>	519
Social and Institutional Factors in Energy Conservation, <i>Paul P. Craig, Joel Darmstadter, and Stephen Rattien</i>	535

IMPACTS OF ENERGY ON ENVIRONMENT, HEALTH, AND SAFETY

Social and Environmental Costs of Energy Systems, <i>Robert J. Budnitz and John P. Holdren</i>	553
Health Effects of Energy Production and Conversion, <i>C. L. Comar and L. A. Sagan</i>	581

Economic Costs of Energy-Related Environmental Pollution, <i>Lester B. Lave and Lester P. Silverman</i>	601
Philosophical Basis for Risk Analysis, <i>Chauncey Starr, Richard Rudman, and Chris Whipple</i>	629
Safety of Nuclear Power, <i>J. M. Hendrie</i>	663
ENERGY POLICY AND POLITICS	
Energy Self-Sufficiency, <i>Peter L. Auer</i>	685
Energy Regulation: A Quagmire for Energy Policy, <i>William O. Doub</i>	715
Federal Land and Resource Utilization Policy, <i>John A. Carver, Jr.</i>	727
INTERNATIONAL ASPECTS OF ENERGY	
International Energy Issues and Options, <i>Mason Willrich</i>	743
INDEXES	
Author Index	773
Subject Index	780