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Evaluations; 4 CLOSED-CYCLE OTEC SYSTEMS; 4.1 OTEC Power Plant; 4.2 Water Ducting; 4.3 Energy Transfer; 4.4 Position Control; 4.5 Platform; 5 OPEN-CYCLE OTEC; 5.1 Open-Cycle System Performance; 5.2 Open-Cycle Research and Development Status; 5.3 Hybrid Cycle; 5.4 Mist Lift Cycle; 5.5 Foam Lift Cycle; 5.6 Estimated Costs and Market Opportunities
5.7 Current OC OTEC Status6 OTEC CLOSED-CYCLE ENGINEERING STATUS; 6.1 Standard Equipment Applicable to OTEC; 6.2 Facilities for OTEC Construction; 6.3 Pilot-Scale OTEC Systems Tests; 6.4 Conceptual Designs of OTEC Systems; 6.5 Preliminary Design of OTEC Plants; 6.6 Conclusions; 7 OTEC CLOSED-CYCLE SYSTEMS COST EVALUATION; 7.1 Cost Uncertainties and Perceived Risks versus Engineering Status; 7.2 Estimated Costs of OTEC Systems; 7.3 OTEC Capital Investments and Potential Sales Prices for Products; 8 OTEC ECONOMICS; 8.1 Introduction
8.2 Factors That Determine the Commercial Viability of Alternative Energy Options8.3 Economic Potential of Existing and Proposed Liquid Fuel Sources; 8.4 Electricity from Existing and Proposed Power Plants; 8.5 Comments; 9 ECONOMIC, ENVIRONMENTAL, AND SOCIAL ASPECTS OF OTEC IMPLEMENTATION; 9.1 Economic and Social Benefits of OTEC Commercialization; 9.2 Environmental Effects; 9.3 General Comments on Effects of OTEC Commercialization; 9.4 Benefits to Island Economics; 9.5 Reduction in Atmospheric Pollution; INDEX; A; B; C; D; E; F; G; H; I; J; L; M; N; O; P; R; S; T; U; V; W; X

Sommario/riassunto

Scientists and engineers around the world are striving to develop new sources of energy that have virtually unlimited potential. This book explores one of these energy alternatives, ocean thermal energy conversion. William H. Avery, the leading researcher in this field, describes the workings of an OTEC power plant and addresses how such a power source might be implemented for national use.

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