

Contents

Preface	vii
Acknowledgments	ix
Conference Committee and Staff	xi
Session Officials	xiii

OCEAN THERMAL ENERGY

Analysis of Various OTEC Missions <i>R. Cohen and E. J. Tschupp</i>	1483
An Update of OTEC Baseline Design <i>P. A. Curto</i>	1505
Major Factors in OTEC Heat Exchanger Design <i>D. Yung, J. J. Lorenz, and N. F. Sather</i>	1521
Ocean Thermal Energy Conversion (OTEC) Plant Working Fluid Study <i>M. I. Nelson</i>	1533
Major Factors in OTEC Power Cycle Design <i>J. M. Clinch</i>	1557
Alternative Forms of Energy Carriers from Ocean Thermal Energy Plants <i>N. Biederman, A. Talib, B. Yudow, A. Konopka, and C. Blazek</i>	1571
The Commercialization of OTEC: Problems and Opportunities <i>Gay Heit Lavi</i>	1587

WIND TURBINES AND SITING

An Axial-Flow Wind-Turbine with Delta-Wing Blades <i>J. A. C. Kentfield and D. H. Norrie</i>	1615
Windmills with Increased Power Output Due to Tipvanes <i>G. J. W. van Bussel</i>	1647
Feature Review of Some Advanced and Innovative Design Concepts in Wind Energy Conversion Systems <i>A. L. Weisbrich</i>	1663

- Flap-Cone Control of Windmill Speed
S. C. Tsai, C. Y. Liu, T. H. Tan, and S. L. Tay **1681**
- Theoretical Study of a Hybrid Wind Turbine
I. Paraschivoiu, E. Bilgen, and F. Da Matha Sant'anna **1693**
- Analysis of the Effect of Turbulence on Wind Turbine Generator Rotational Fluctuations
W. Frost **1703**
- Torodial Accelerator Rotor Platforms for Wind Energy Conversion
A. L. Weisbrich **1735**
- The Campbell Chinese Type Windmill
J. S. Campbell **1755**
- Optimal Location of Windmills
T. P. Torda **1779**
- Wind Site Selection for Optimum Wind Power Systems
M. C. Smith **1787**

WIND POWER GENERATION

- A Review of Wind-Electric Conversion Technology
R. Ramakumar **1811**
- Wind Energy Assessment
D. M. Hardy and J. J. Walton **1835**
- Clean Energy From Humid Air
T. K. Oliver, W. N. Groves, C. L. Gruber, and A. Cheung **1887**
- Wind Energy Conversion Systems (WECS) for Central Station and Dispersed Power Applications
T. R. Kornreich and D. M. Tompkins **1865**
- Energy Analysis of a Wind Energy Conversion System for Fuel Displacement
W. O. Devine, Jr. **1901**
- Aeroelastic Pump
D. E. Wilson **1925**
- Clean Energy: Some Bits and Pieces
G. E. Henry **1947**

