ELECTRICAL DESIGN FOR OCEAN WAVE AND TIDAL ENERGY SYSTEMS
RAYMOND ALCORN & DARA O’SULLIVAN (EDS.)

Provides an electrical engineering perspective on offshore power stations and their integration to the grid. With contributions from a panel of leading international experts, this book is essential reading for those working in ocean energy development and renewable energy.

- Wave and tidal energy engineering has developed strongly in the past decade, with hundred-MW arrays of full scale grid connected wave and tidal devices planned for the next few years.
- This book provides an electrical engineering perspective on these offshore power stations and their integration to the grid.
- Topics covered include: the selection and sizing of generators and their interaction with power electronics, power cables, connectors and umbilical’s, grid integration and power quality issues, energy storage, the implementation of control systems in ocean energy devices modelling and simulation, the relative costing’s of various systems and the influence of electrical design on overall project lifetime cost.

READERSHIP
Essential reading for electrical design engineers, researchers and students working in ocean energy development and renewable energy.

AUTHOR INFORMATION
Dr. Raymond Alcorn is Executive Director at the Hydraulics and Maritime Research Centre at University College Cork. He has been involved in ocean energy for the past 15 years including involvement in the formation of the Irish Marine Renewables Industry Association (MRIA).

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