A comprehensive text covering all aspects of wave and tidal energy

Wave and Tidal Energy provides a comprehensive and self-contained review of the developing marine renewable energy sector, drawing from the latest research and from the experience of device testing. The book has a twofold objective: to provide an overview of wave and tidal energy suitable for newcomers to the field and to serve as a reference text for advanced study and practice.

Including detail on key issues such as resource characterisation, wave and tidal technology, power systems, numerical and physical modelling, environmental impact and policy. The book also includes an up-to-date review of developments worldwide and case studies of selected projects.

Key features:

• A comprehensive and self-contained text covering all aspects of the multidisciplinary fields of wave and tidal energy.

• Draws upon the latest research in wave and tidal energy and the experience of leading practitioners in numerical and laboratory modelling.

• Regional developments worldwide are reviewed and representative projects are presented as case studies.
Wave and Tidal Energy is an invaluable resource to a wide range of readers, from engineering students to technical managers and policymakers to postgraduate students and researchers.

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**ABOUT THE AUTHOR**

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**Gregorio Iglesias (GI)** is Professor of Coastal Engineering at University of Plymouth and Leader of the COAST (Coastal, Ocean and Sediment Transport) Research Group. He has over 20 years’ experience in numerical and physical modelling applied to Marine Renewable Energy and Coastal Engineering, including the characterisation of wave and tidal resources, and the modelling of coastal morphodynamics accounting for the effects of wave and tidal farms. He participates in the design and laboratory tests of WECs and coastal and port structures, and acts as PI on research grants and contracts funded by the European Commission, various national research councils, coastal management agencies and port authorities. He is a member of the IEC Technical Committee for sub-prototype size wave energy device development (laboratory testing) and one of the inventors of the WaveCat, a floating overtopping WEC. Professor Iglesias has published over 100 peer-reviewed papers and secured over £5M research income.

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