



Marine Applications of Advanced Fibre-reinforced Composites (Woodhead Publishing Series in Composites Science and Engineering)

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Marine Applications of Advanced Fibre-reinforced Composites (Woodhead Publishing Series in Composites Science and Engineering) From Woodhead Publishing

The marine environment presents significant challenges for materials due to the potential for corrosion by salt water, extreme pressures when deeply submerged and high stresses arising from variable weather. Well-designed fibre-reinforced composites can perform effectively in the marine environment and are lightweight alternatives to metal components and more durable than wood. *Marine Applications of Advanced Fibre-Reinforced Composites* examines the technology, application and environmental considerations in choosing a fibre-reinforced composite system for use in marine structures.

This book is divided into two parts. The chapters in Part One explore the manufacture, mechanical behavior and structural performance of marine composites, and also look at the testing of these composites and end of life environmental considerations. The chapters in Part Two then investigate the applications of marine composites, specifically for renewable energy devices, offshore oil and gas applications, rigging and sails. Underwater repair of marine composites is also reviewed.

- Comprehensively examines all aspects of fibre-reinforced marine composites, including the latest advances in design, manufacturing methods and performance
- Assesses the environmental impacts of using fibre-reinforced composites in marine environments, including end of life considerations
- Reviews advanced fibre-reinforced composites for renewable energy devices, rigging, sail textiles, sail shape optimisation and offshore oil and gas applications

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Editorial Review

About the Author

John Summerscales is Senior Lecturer in the School of Manufacturing, materials and Mechanical Engineering at the University of Plymouth, UK and a key staff member of the Advanced Composites Manufacturing Centre. He is a Fellow of both the Institute of Materials and the British Institute of Non-Destructive Testing and a Professional Member of the Society for the Advancement of Materials and Process Engineering.

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