

SAILING YACHT DESIGN: Practice

Sailing craft form an expanding sector of the marine industry and events such as the America's Cup and the Volvo Ocean Race (formerly the Whitbread Round-the-World Race) are receiving increased public interest. The science and technology associated with the design, construction and operation of sailing yachts is developing at a rapid rate. New design tools based on computational techniques are emerging and the fabrication and construction materials technology is advancing very quickly.

This two volume set, *Sailing Yacht Design: Theory* and *Sailing Yacht Design: Practice*, provides a guide to the fundamental principles governing how and why a sailing yacht behaves in the way it does. It also provides an understanding of the physics involved and the mathematical modelling of yachts. The material was compiled for a WEGEMT School held at the University of Southampton in September 1998. WEGEMT is an association of European universities in marine technology.

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- Contains a series of chapters by different designers on their experiences of translating scientific principles into reality.
- Covers the practical design of hulls and appendages such as keels and sails.
- Describes the practical design of the structure of a high performance hull made from advanced composites.
- Looks at production techniques and boatyard facilities.
- Puts a practical perspective on handicap rules, statutory and regulatory constraints and safety considerations.

The three editors are all at the University of Southampton, which has pioneered the education of ship science students at both undergraduate and postgraduate levels with specialisations in yacht and small craft design.

Andrew Cloughton is one of the foremost experts in yacht performance prediction and hull design. He has been a consultant over many years to different America's Cup and Whitbread Round-the-World Race teams. **John Wellicome** pioneered setting up teaching programmes for yacht mechanics and design at Southampton University. He has directed numerous postgraduate research projects in yacht performance prediction and acted as a consultant to many industrial designers. **Ajit Sheno**i is a specialist in high performance materials and lightweight structures and has published extensively in this area. He has wide-ranging research and industrial links with colleagues from around the world.

The contributors are all internationally renowned authorities. They work in the fields of sailing yacht design, construction, design consultancy, classification societies, yachting associations, materials supply research establishments and universities.