



Marine Rudders and Control Surfaces: Principles, Data, Design and Applications

By Anthony F. Molland, Stephen R. Turnock

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Marine Rudders and Control Surfaces guides naval architects from the first principles of the physics of control surface operation, to the use of experimental and empirical data and applied computational fluid dynamic modelling of rudders and control surfaces.

The empirical and theoretical methods applied to control surface design are described in depth and their use explained through application to particular cases. The design procedures are complemented with a number of worked practical examples of rudder and control surface design.

- The only text dedicated to marine control surface design
- Provides experimental, theoretical and applied design information valuable for practising engineers, designers and students
- Accompanied by an online extensive experimental database together with software for theoretical predictions and design development

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Editorial Review

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About the Author

Anthony Molland, MSc, PhD, CEng, FRINA is Emeritus Professor of Ship Design at the University of Southampton. He has carried out extensive experimental research and published widely on ship design and ship hydrodynamics including ship rudders and control surfaces, propellers and ship resistance components.

Stephen Turnock, MA, SM, PhD, CEng, MIMechE is Senior Lecturer in Ship Science at the University of Southampton. His research encompasses both experimental and theoretical work on ships, yachts, underwater vehicles and renewable energy devices and the application of CFD for the design of control surfaces and propulsion systems.

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