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

Anthony F. Molland, Stephen R. Turnock

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This book 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 online companion site contains an extensive modelling data library, plus software for theoretical control surface design, based on over 25 years of world-class research at the University of Southampton, an incredible resource for engineers in this field.

• 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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