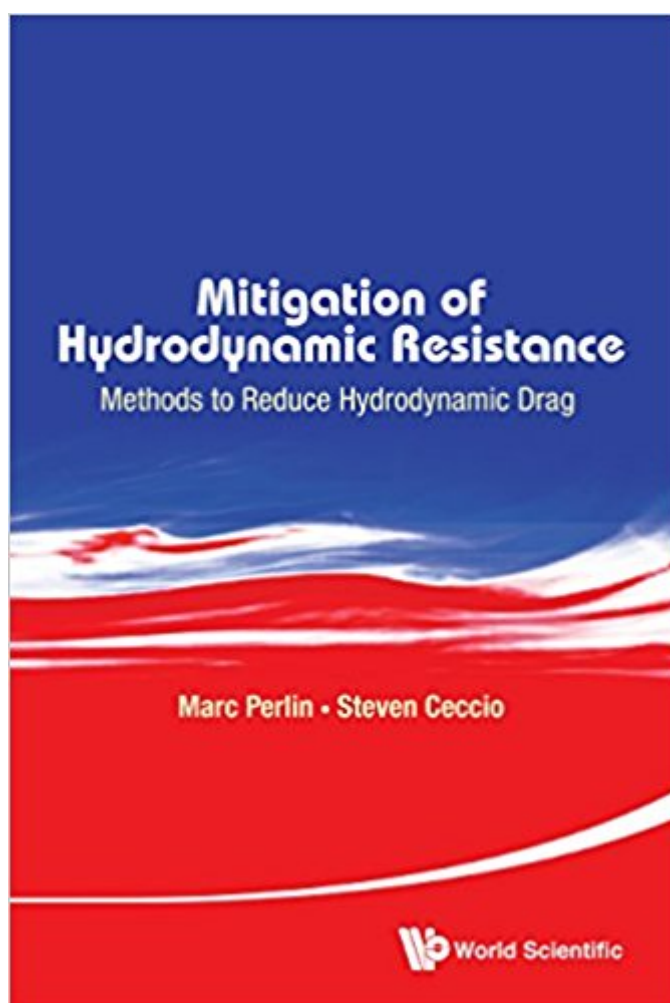




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Mitigation Of Hydrodynamic Resistance: Methods To Reduce Hydrodynamic Drag



Synopsis

This text presents the state of the art in friction drag/resistance reduction technologies for BODIES and crafts operating in liquids at and beneath the free surface. It is useful for professionals with backgrounds in advanced fluid dynamics as well as by academics teaching introductory graduate courses in this area. Active control of resistance will include a discussion of friction reduction, for example through the injection of gas that can form air layers and polymers that initially reside adjacent to the hull, including the use of partial and super cavities. The book discusses passive resistance control achieved through changes in the overall hull shape and appendages, including the application of lifting bodies, bulbous bows, and stern flaps. It also addresses passive reduction of skin friction through the application of hull coatings and other elements of hull husbandry. Readership: Professionals, academics, researchers, and graduate students in ocean engineering, mechanical engineering, fluid mechanics and tribology.

Book Information

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Customer Reviews

This is an excellent book on the important subject of reducing the frictional resistance of marine vessels. The principal techniques considered include aerating the surface with small bubbles and the use of textured surfaces which trap minute pockets of air. In both cases, the aim is to unset the surface and thereby eliminate to some extent the traditional boundary layer in the water. Frictional resistance is a major component of the overall drag budget; as a consequence, this book is a valuable contribution to the field. The book is highly recommended because the two authors are world leaders in the area of drag reduction. Larry

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