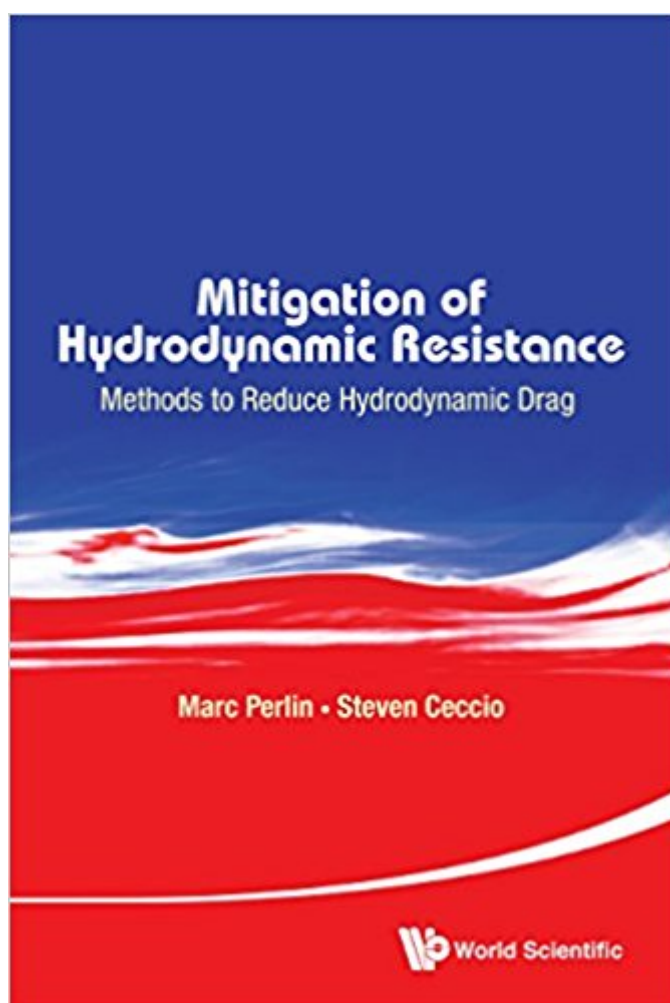


The book was found

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

Hardcover: 164 pages

Publisher: World Scientific Publishing Company (January 20, 2015)

Language: English

ISBN-10: 9814612251

ISBN-13: 978-9814612258

Product Dimensions: 7.2 x 0.6 x 9.2 inches

Shipping Weight: 1.1 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #3,243,968 in Books (See Top 100 in Books) #41 in Books > Engineering & Transportation > Engineering > Mechanical > Tribology #1783 in Books > Science & Math > Physics > Mechanics

Customer Reviews

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.

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

[Download to continue reading...](#)

Mitigation of Hydrodynamic Resistance: Methods to Reduce Hydrodynamic Drag Wetland

Mitigation: Mitigation Banking and Other Strategies for Development and Compliance Adrenal

Fatigue: Overcome Adrenal Fatigue Syndrome, Boost Energy Levels, and Reduce Stress (Adrenal Fatigue Syndrome, Reduce Stress, Adrenal Fatigue Diet, Adrenal Reset Diet Book 1)

Anti-Inflammatory Diet: A complete guide to the Anti-Inflammatory Diet, How to reduce

Inflammation?: What you should eat & avoid to Reset your Immune System ... Immune System,

Reduce Inflammation Book 1) Anti-Inflammatory Diet: A complete guide to the Anti-Inflammatory

Diet, How to reduce Inflammation?: What you should eat & avoid to Reset your Immune ... System,

Reduce Inflammation) (Volume 1) What Every Good Lawyer Wants You to Know: An Insider's

Guide on How to Reduce Stress, Reduce Costs and Get the Most From Your Lawyer Ketogenic

Diet: Ketosis For Diabetes -Lower Your Blood Sugar And Lose Weight(Reduce

Inflammation,reverse type 2 diabetes,Insulin Resistance Diet) (paleo ... low carb high fat,keto

clarity,diabetes,) Anti Inflammatory Diet: 4 Manuscripts: Insulin Resistance Diet, Plant Based Diet

Cookbook, Insulin Resistance Cookbook, Healthy Eating (Anti Inflammatory Diet Cookbook Bundle)

Support and Resistance: How to Use Support and Resistance to Limit Trading Losses and Identify

Breakouts Insulin Resistance Diet: Your Step By Step Guide to Cure Diabetes & Prevent Weight

Gain© Over 365+ Delicious Recipes & One Full Month Meal Plan (Insulin Resistance Cookbook,

Balance Your Blood-Sugar) Insulin Resistance: Strategies to Overcome Insulin Resistance, Control

Blood Sugar and Lose Weight Sailing Theory and Practice. A Scientific Analysis, with 335 Drawings

and Photographs of the Aerodynamic, Hydrodynamic and Other Design Factors which Define a

Yacht's Behaviour. Physics of Shock Waves and High-Temperature Hydrodynamic Phenomena

(Dover Books on Physics) Hydrodynamic and Hydromagnetic Stability (International Series of

Monographs on Physics) Hydrodynamic Lubrication, Volume 33: Bearings and Thrust Bearings (Tribology and Interface Engineering) Introduction to Hydrodynamic Stability (Cambridge Texts in Applied Mathematics) Securing the Outdoor Construction Site: Strategy, Prevention, and Mitigation The 24-Hour Tech: The 20-Step Manual to Increase Profits, Decrease Training Time and Systemize Your Mitigation Process IN ONE DAY. (The Claim Clinic Manuals Book 1) Strategies to the Prediction, Mitigation and Management of Product Obsolescence Natural Hazard Mitigation: Recasting Disaster Policy And Planning

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)