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Titolo	The Aero- and Hydromechanics of Keel Yachts // by J.W. Slooff
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Introduction -- 2 Sailing Yacht Geometry and Mass Properties -- 3 Forces, Moments and Motions -- 4 Sailing: Basic Mechanics -- 5 Elements of Fluid Mechanics (Air and Water) -- 6 Forces Under Water: Hydromechanics -- 7 Forces Above the Water Surface: Aerodynamics -- 8 Encore: Sailing; Aerodynamics Plus Hydromechanics -- Retrospection -- Appendices.
Sommario/riassunto	How and why does sail boat performance depend on the configuration and trim of boat and sails? This book provides the yachtsman with answers in a relatively straightforward account of the physical mechanisms of sailing. It presents an accessible overview of the fluid dynamic aspects of sailing and sailing technology, addressing both aeromechanics and hydromechanics. Readers are provided with the basic principles of physics and general mechanics that will assist their

understanding of the fluid mechanics of sailing yachts. Rich appendices cover not only in-depth, mathematical-physical treatments and derivations for those wishing to explore further, but also helpful summaries of basic mathematical notions for those wishing to refresh their knowledge. This work explores keel yachts, specifically single-masted mono-hulls with 'fore-and-aft', Bermuda-rigged sails. However, much of it is applicable to other types of sailing vessels such as multi-hulls, yachts with multiple masts, windsurf boards and the like. Yachtsmen, yacht designers and professionals of sailing technology will all find something of interest in this work which provides explanations of the mechanics of sailing in a way that is scientifically justified, whilst remaining appealing to those wishing to use their knowledge on-board a sailing vessel.
