



Fig. 1.14 A yacht under way

Fig. 1.13 shows a yacht sailing at constant speed in calm water.

In these conditions, the parts of the boat above the waterline are subject to the aerodynamic forces, whose resultant is shown as F_a in Fig. 1.4, while the submerged part interacts with the water to produce the hydrodynamic force F_h , which must balance the aerodynamic force.

Also acting on the boat are the effects of its weight, which are balanced by the buoyancy forces that also act on the boat.

By trimming the sails and using the rudder, the boat can be maintained on a given heading.

Before considering in detail the forces that play

a part in propelling a sailing boat, we must distinguish between:

- static forces, such as weight and the buoyancy force, which are not influenced by motion but by the geometrical parameters of the hull, and
- dynamic forces that arise from the relative motion between the boat and the air and water surrounding it.

Later, we will see how the behaviour of the boat can be interpreted in terms of the equilibrium created between all the forces developed by the yacht and the two elements surrounding her (air and water).

1.3 Physical model and equilibrium

In studying the motion of a boat, it is worth remembering that it can be seen as a rigid body moving in space and, as such, its motion can be defined with six degrees of freedom corresponding to six fundamental motions:

Once we have defined a cartesian reference system xyz with the origin in the centre of gravity of the boat, the x axis lying along the boat's centreline and pointing forward, the y axis lying starboard (with x and y lying in the waterline) and the z axis pointing upwards, we can identify the basic motions, which are:

- surge (displacement along the x axis);
- sway (displacement along the y axis);
- heave (displacement along the z axis);
- roll (rotation around the x axis);
- yaw (rotation around the y axis);
- pitch (rotation around the vertical z axis).

Since the motion of the yacht has six degrees of freedom, to describe it we will need six dynamic equilibrium equations. Three of these represent the equilibrium of translation along the three axes (surge) and three the equilibrium of rotation.

For simplicity, we will first look at the effects of the forces applied on the motion of the boat, without taking into consideration the equations for this motion.

Since the boat hull is partly immersed in water and with the remaining part immersed in air, it is subject to forces due both to hydrodynamic and aerodynamic respectively.

Fig. 1.4 shows a boat under way, while Fig. 1.5 (page 1) describes the general situation in terms of the forces acting on the yacht respectively from above (Fig. 1.5a), in the fore-and-aft plane (Fig. 1.5b) and in the starboard-plane (Fig. 1.5c).

Let's start by studying what happens between the yacht and the air surrounding her. The action of the apparent wind V_a on all parts of the boat above the waterline (deck, rigging and sails) through the basic mechanisms described in Appendix 1 that



Fig. 1.4 The forces between the forces developed in the air and in the water

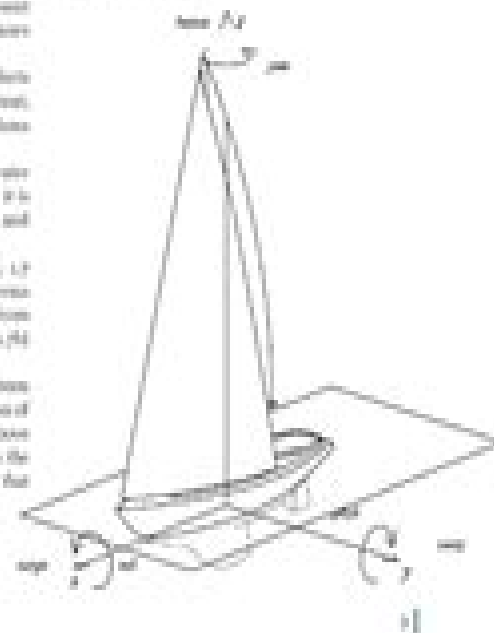


Fig. 1.5 Forces of traction of a boat

Aero Hydrodynamics And The Performance Of Sailing Yachts The Science Behind Sailing Yachts And Their Design

Lars Larsson, Rolf Eliasson, Michal Orych



Aero Hydrodynamics And The Performance Of Sailing Yachts The Science Behind Sailing Yachts And Their Design:

Aero-hydrodynamics and the Performance of Sailing Yachts Fabio Fossati, 2009-12-18 A groundbreaking technical analysis of yacht design based on cutting edge research in the field of aero hydrodynamics *Principles of Yacht Design* Lars Larsson, Rolf Eliasson, Michal Orych, 2022-03-17 Principles of Yacht Design has established itself as the standard book on the subject for practising designers naval architecture students discerning boat owners as well as the boatbuilding industry as a whole The fifth edition is completely revised and expanded It examines every aspect of the process of yacht and powerboat design The new edition includes new findings from recent research in aero and hydrodynamics as well as covering the most recent changes to building standards The authors have used a newly built 41 foot performance cruiser to demonstrate the practical application of yacht design theory This new edition includes photos of the building process and detailed explanations

The Science Behind Sailing Joop Slooff, 2019-03-23 This is THE book on the aero and hydromechanics of sailing Contains full and scientifically justified descriptions of the dependence of the performance of sailing yachts on their configuration and the underlying physical mechanisms Bridges the gap between the few existing books on the aero and hydrodynamics of sailing and the more popular books that deal with the what and how but not with the why of sailing yacht configurations and boat trim New edition that also covers the recently evolved technology of foiling REVIEWS OF THE 1ST EDITION From the December 2015 issue of the Dutch sailing magazine Zeilen translated Decades of research and development in fluid dynamics but also his experience as a cruising yachtsman have put author Joop Slooff in the position to write a new standard work on the behavior of keel yachts in wind and water In his preface the author states that it is his ambition to bridge the gap between the few existing scientific books on the aero and hydrodynamics of sailing and the more popular books that describe the what and how but not so much the why of boat trim For this purpose the author treats the basic principles of the forces acting on a sailing yacht but he describes also how these principles translate to the boat and its sails In the world of sailing Slooff is known for his involvement in the development of the winged keel of the America's Cup winning yacht Australia II His book is an excellent work for the dedicated yachtsman who is interested in the why and the scientific background of the behavior of his or her boat in wind and water Comment Dec 2015 by Edward Canepa assistant professor in Fluid Machinery at the University of Genova Italy For some years I'm teaching a course on Sailing Yacht Design in the master class of yacht design Actually I've found your book the best one about physics of a sailing yacht I've ever read Comment Dec 2015 by Frank Woodward former computational fluid dynamicist at the Boeing Company and Analytical Methods Inc and a cruising yachtsman retired very impressed no wonder it took so long It is everything I ever wanted to know about sailing but was afraid to ask

The Aero- and Hydromechanics of Keel Yachts J.W. Slooff, 2015-04-25 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. For some years I'm teaching a course on Sailing Yacht Design in the master class of yacht design. Actually I've found your book the best one about physics of a sailing yacht I've ever read. Edward Canepa, assistant professor in Fluid Machinery at the University of Genova, Italy, very impressed. No wonder it took so long. It is everything I ever wanted to know about sailing but was afraid to ask. Frank Woodward, former computational fluid dynamicist at the Boeing Company and Analytical Methods Inc and a cruising yachtsman.

Graduate Studies, 1978 **Bibliography of Nautical Books**, 1996 **New Scientist**, 1958 S & SR Marine Design International, 1960 **Aero-hydrodynamics of Sailing** Czesław A. Marchaj, Czesław Tony Marchaj, 2000. The international classic work of reference for anyone wishing to understand the factors governing the performance of a sailing boat. Everyone interested in yacht design should read this book. A new Appendix in this Third Edition presents a simple graphic method for predicting a yacht's behavior. Annual Review of Fluid Mechanics, 1990. Provides abstracts and full text to articles on fluid mechanics. Journal of Hydronautics, 1971. Aero-hydrodynamics of Sailing Czesław A. Marchaj, 1988. **Transactions of the Royal Institution of Naval Architects** Royal Institution of Naval Architects, 1951. List of members in each volume. **Transactions of the Institution of Naval Architects** Institution of Naval Architects, 1951. List of members in each volume. The Woodenboat, 1995. **Sailing Yacht Design** Andrew R. Claughton, J. F. Wellicome, R. A. Shenoi, 1998. This two volume set *Sailing Yacht Design Theory* and *Sailing Yacht Design Practice* provides a guide to the fundamental principles governing how and why a sailing yacht behaves in the way it does. It also provides an understanding of the physics involved and the mathematical modelling of yachts. The material was compiled for a WEGEMT School held at the University of Southampton in September 1998. WEGEMT is an association of European universities in marine technology. *Sailing Yacht Design Practice* Contains a series of chapters by different designers on their experiences of translating scientific principles into reality. Covers the practical design of hulls and appendages such as keels and sails. Describes the practical design of the structure of a high performance hull made from advanced composites. Looks at

production techniques and boatyard facilities Puts a practical perspective on handicap rules statutory and regulatory constraints and safety considerations The three editors are all at the University of Southampton which has pioneered the education of ship science students at both undergraduate and postgraduate levels with specializations in yacht and small craft design The Aero-hydrodynamics of Sailing Yachts Bloomsbury Publishing Plc,2009-10-15 This is a groundbreaking technical book on yacht design linked to the theory and testing of how a sailing yacht behaves underway It is cutting edge in that the conclusions drawn are based on the tank testing and wind tunnel testing of models and represents the state of the art in performance prediction which underlies all modern yacht design This brand new volume from the internationally respected hydrodynamics expert and consultant is bang up to date with a systematic analysis of how a yacht performs underway **APAIS, Australian Public Affairs Information Service** ,2000 Vol for 1963 includes section Current Australian serials a subject list **Principles of Yacht Design** Lars Larsson,Rolf Eliasson,Michal Orych,2022-03-17 Principles of Yacht Design has established itself as the standard book on the subject for practising designers naval architecture students discerning boat owners as well as the boatbuilding industry as a whole The fifth edition is completely revised and expanded It examines every aspect of the process of yacht and powerboat design The new edition includes new findings from recent research in aero and hydrodynamics as well as covering the most recent changes to building standards The authors have used a newly built 41 foot performance cruiser to demonstrate the practical application of yacht design theory This new edition includes photos of the building process and detailed explanations **Peterson's Annual Guides to Graduate Study** ,1981

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