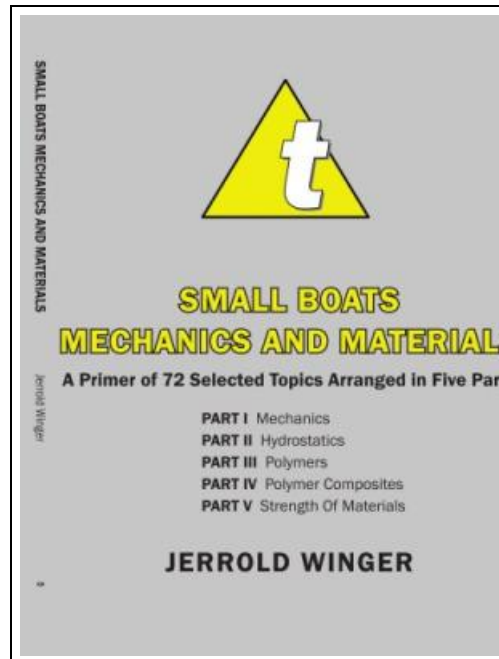


Small Boats Mechanics and Materials: A Primer of 72 Selected Topics Arranged in Five Parts



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(Perry Reinger)

SMALL BOATS MECHANICS AND MATERIALS: A PRIMER OF 72 SELECTED TOPICS ARRANGED IN FIVE PARTS



AUTHORHOUSE, United States, 2007. Paperback. Book Condition: New. 272 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.Why This Book Is Useful The small boat building industry is still largely an art or craft, comprising many manufacturers of dozens of styles and sizes of boats. The overarching factor in all of their boat designs and features is dependence on the choice of materials and the compromises they engender. This book is arranged in five parts, covering seventy two topics. Woven through these topics are text and problem examples that describe the interaction of mechanics and materials applied specifically to small boats. These topics are intended for those wanting more depth in selected areas along the lines of a primer or to just cherry pick engineering concepts. A typical example is Part II - Hydrostatics, shown below. Part II - Hydrostatics 10) Fluid forces, principles and common terms 11) Definitions for fluid dynamics 12) Important relationships and equations 13) Fluid pressure 14) Pressure and Pascals Law 15) Calculate the maximum height of a water column in an evacuated standpipe 16) Calculate the pressure a small boat exerts on the water surface 17) Bad weather 18) Calculate the percent drop in air pressure during an atmospheric low 19) Calculate the wind speed from an atmospheric low 20) Buoyancy 21) Buoyancy using Archimedes Principle 22) Pressure under the boat 23) Swamping over the stern with people on board 24) Center of gravity 25) Capsizing 26) Wave action, capsizing force diagrams 27) Surface tension and wetting angle 28) Capillary force This book is a must for your nautical library, if you are among the millions of people involved with watercraft. Boat Builders Boat buyers Insurers Boat designers Informed sportsmen Marine surveyors Boat repairers Boating journals Accident reconstructionist Materials vendors...



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