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the hydrostatic approach to ship stability aims to balance idealized ship weight against buoyancy forces this textbook is a complete guide to understanding ship hydrostatics in ship design and ship performance adrian biran guides readers from first principles through basic and applied hydrostatic and ship stability theory and introduces contemporary mathematical techniques for hydrostatic modelling and analysis real life examples of the practical application of hydrostatics are used to explain the theory and calculations and to illustrate the effect shifting weights and central gravity displacements have on overall ship stability ship hydrostatics and stability covers recent developments in the field of naval architecture such as parametric resonance also known as the mathieu effect the effects of non linear motions on stability the influence of ship lines and new international stability regulations for small vessels extensive use of computer techniques is made

throughout adheres to international standards and terminology includes real life practical examples and calculations to illustrate the hydrostatic approach to ship stability

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this is volume 2 of the fully revised second edition organized to provide the technical professional with ready access to practical solutions this revised three volume 2 100 page second edition brings to life essential asme codes with authoritative commentary examples explanatory text tables graphics references and annotated bibliographic notes this new edition has been fully updated to the current 2004 code except where specifically noted in the text gaining insights from the 78 contributors with professional expertise in the full range of pressure vessel and piping technologies you find answers to your questions concerning the twelve sections of the asme boiler and pressure vessel code as well as the b31 1 and b31 3 piping codes in addition you find useful examinations of special topics including rules for accreditation and certification perspective on cyclic impact and dynamic loads functionality and operability criteria fluids pipe vibration stress intensification factors stress indices and flexibility factors code design and evaluation for cyclic loading and bolted flange joints and connections

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