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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

ship hydrostatics and stability is a complete guide to understanding ship hydrostatics in ship design and ship performance taking you from first principles through basic and applied theory to contemporary mathematical techniques for hydrostatic modeling and analysis real life examples of the practical application of hydrostatics are used to explain the theory and calculations using matlab and excel the new edition of this established resource takes in recent developments in naval architecture such as parametric roll the effects of non linear motions on stability and the influence of ship lines along with new international stability regulations extensive reference to computational techniques is made throughout and downloadable matlab files accompany the book to support your own hydrostatic and stability calculations the book also includes definitions and indexes in french german italian and spanish to make the material as accessible as possible for international readers equips naval architects with the theory and context to understand and manage ship stability from the first stages of design through to construction and use covers the prerequisite foundational theory including ship dimensions and geometry numerical integration and the calculation of heeling and righting moments outlines a clear approach to stability modeling and analysis using computational methods and covers the international standards and regulations that must be kept in mind throughout design work includes definitions and indexes in french german italian and spanish to make the material as accessible as possible for international readers

selected peer reviewed papers from the 4th international conference on intelligent structure and vibration control isvo 2014 july 25 28 2014 chongqing china

this is volume 2 of the fully revised second edition organized to provide the technical professional with ready access to

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