Free epub Merchant ship stability (Download Only)

the kemp and young series provides a general introduction to a number of subject areas in a style that will be ideally suited for those wishing to learn more the concise presentation of the subject matter is made possible by the reduction of the work to its simplest terms this is achieved through the omission of unnecessary mathematics or mathematical concepts and the generous use of diagrams and illustrations rapid reference to the substance of each topic can be made by use of the carefully constructed index the third edition of ship stability notes and examples has been updated by dr c b barrass who has wide experience in both industry and the academic field the book has been thoroughly revised and expanded to be more in line with current examinations and now covers topics such as ship squat angle of heel whilst turning and moments of inertia via simpson s rules also included is a diagram showing deadweight moment ship stability notes and examples is an invaluable tool to aid in the passing of maritime examinations updated volume of the popular kemp and young series for the new millennium 66 fully worked examples with a further 50 giving final answers linking ship stability and ship motions endnotes this book is a selection of research papers presented in 5 consecutive international ship stability workshops issws managed by the stab international standing committee in the period 2013 2019 2013 brest 2014 kuala lumpur 2016 stockholm 2017 belgrade 2019 helsinki issws are a long standing and authoritative series of international technical meetings in the field of stability of ships and ocean vehicles the book is the fourth of a line of books started 20 years ago and having the main title contemporary ideas on ship stability it focuses on the state of the art ship stability criteria and covers topics such as ship dynamics in waves roll damping stability of damaged ships model experiments and effect of stability requirements on ship design and operation this book helps the readers to understand the current state of the art in the field of ship stability and see how this comes into the development of modern criteria of ship design and operation this textbook provides readers with an understanding of the basics of ship stability as it has been enacted in international law the assessment of ship stability has evolved considerably since the first solas convention after the sinking of the rms titanic and this book enables readers to familiarise themselves with the most up to date modern day methodology as well as looking ahead to the effects on ship design over the next fifty years the author not only explains the methodology of probabilistic ship damage as required by the international maritime organisation imo but also details the new requirements to assess certain sizes and classes of ships to the seven second generation ship stability requirements many textbooks that are currently used by undergraduates focus on the geometric centric deterministic approach to the assessment of ship stability whereas this book also includes material on the classes of ships that are now required to have probabilistic ship damage assessment as has only recently been agreed by the imo basic naval architecture ship stability contains up to date information making it ideal for university students studying ocean or marine engineering as well as being of interest to students on naval architecture and ship science courses highly illustrated and including chapter studies for ease of learning the book is an ideal one volume textbook for students included in back pocket is supplement roll on roll off vessels guidelines to their safe handling 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 merchant ship stability presents the theory and application of methods for maintaining ship stability it serves as a textbook for deck officers and first year degree students the book discusses the methods of simpson s rules for measuring ship form the principle of floatation finding the position of the center of gravity and the effect of the center of gravity of the vessel not being on the centerline the effect of having liquids within the vessel which are free to move and the effect of suspending weights topics on the assessment of stability of large angles of heel regulations about merchant vessel stability and dry docking and grounding are provided as well deck officers and merchant marine students will find the book very useful ship types and general characteristics forces and moments centroids and the centre of gravity density and specific gravity laws of flotation effect of density on draft and displacement transverse statical stability effect of free surface of liquids on stability tpc and displacement curves form coefficients simpson s rules for areas and centroids final kg calculating kb bm and metacentric diagrams list moments of statical stability trim stability and hydrostatic curves increase in draft due to list water pressure combined list and trim calculating the effect of free surface liquids fse bilging and permeability dynamical stability effect of beam and freeboard on stability angle of loll true mean draft the inclining experiment effect of trim on tank soundings drydocking and grounding second moments of areas liquid pressure and thrust centres of pressure ship squat heel due to a vessel turning unresisted rolling in still water list due to bilging side compartments the deadweight scale interaction effect of change of density on draft and trim list with zero metacentric height the trim and stability book bending of beams bending of ships strength curves for ships bending and shear stresses simplified stability information appendices include summary of formulae conversion tables revision one liners how to pass examinations in maritime studies draft surveys introduction to concepts of ship stability resistance and powering relevant to marine professionals including naval architects and merchant navy deck and engineering officers during the last decade significant progress has been made in the field of ship stability yet in spite of the progress made numerous scientific and practical challenges still exist with regard to the accurate prediction of extreme motion and capsize dynamics for intact and damaged vessels the probabilistic nature of extreme events criteria that properly reflect the physics and operational safety of an intact or damaged vessel and ways to provide relevant information on safe ship handling to ship operators this book provides a comprehensive review of the above issues through the selection of representative papers presented at the unique series of international workshops and conferences on ship stability held between 2000 and 2009 the editorial committee has selected papers for this book from the following events stab 2000 conference launceston tasmania 5th stability workshop trieste 2001 6th stability workshop long island 2002 stab 2003 conference madrid 7th stability workshop shanghai 2004 8th stability workshop istanbul 2005 stab 2006 conference rio de janeiro 9th stability workshop hamburg 2007 10th stability workshop daejeon 2008 and stab 2009 conference st petersburg the papers have been clustered around the following themes stability criteria stability of the intact ship parametric rolling broaching nonlinear dynamics roll damping probabilistic assessment of ship capsize environmental modelling damaged ship stability cfd applications design for safety naval vessels and accident investigations this well established textbook has been fully reviewed and updated by a new author to ensure a modern coverage of the contents in depth a new unique introduction has been written giving ship types together with their general characteristics to indicate to the reader actual or typical sizes of modern day merchant vessels four new chapters have been added dealing with ship squat the deadweight scale interaction and the trim and stability book a new section on draft surveys is included in the appendices in order to give the student a better understanding of ship strength four smaller but more detailed chapters replace the chapter covering this subject area in the previous edition ship stability with respect to motions can be defined as the ability of a ship to return to an initial condition after she has been subjected to disturbing forces and moments ship stability can also exist with respect to materials stresses and forces where it is the ability to return to an initial state after being subjected to external or internal forces careful attention has been paid to the basic principles of ship stability and ship strength included is a generous provision of worked examples and exercise questions with answers these ensure that the maritime student who works through this book will have a clear grasp of the topics covered up to date syllabuses and recent examination papers are included at the end of this book understanding

ship stability is critical for all maritime students or professionals who are studying for a deck or engineering certificate of competency or seeking promotion to a higher rank within any branch of the merchant marine or navy the sixth edition of the now classic ship stability provides a comprehensive introduction to all aspects of ship stability and ship strength squat interaction and trim materials stresses and forces the market leading ship stability text widely used at sea and on shore new content inclues coverage of now mandatory double skin tankers and fast ferries meets stcw standards of training certification watchkeeping requirements and includes self examination material essential reading for professionals and students alike also available on cd rom stability and trim for the ship s officer has been completely updated after twenty two years aboard today s vessels technology and computers abound as ship s gear the once long and tedious calculations for stability trim and hull strength are now done in minutes but no matter how much change the industry has undergone the laws of physics are constant the only way to verify that the computer is coming up with accurate figures is to read the ship s drafts x000d two new chapters have been included prerequisites for stability trim and hull strength calculations and u s coast guard questions on stability trim and longitudinal hull strength the appendix has also been updated to include the stability data reference book august 1989 edition which is the same supplied in the united states coast guard license examination room x000d author during the past few years there have been considerable changes in the approach to ship stability so far as it affects the merchant seaman the most obvious of these is the introduction of metric units in addition examination requirements have been increased and recommendations for a standard method of presenting and using stability information have been produced which will undoubtedly be reflected in the various examinations includes bibliographical references and index since it was first published in 1946 this book has become the definitive text on ship stability it is written from the point of view of the merchant officer and correctly assumes that the officer does not want to wade through unnecessary technical terms it impresses upon the reader the fact that stability is a practical though not easy subject that can be used to increase the safety of the vessel and the comfort of the crew in addition to extensive sections on transverse and longitudinal stability the book includes treatment of hull strength and shipboard applications including the effects of damage to the ship a chapter on marine disasters demonstrates the need for attention to this vital aspect of shipboard management and a generous section of appendices includes questions and problems on stability useful stability and trim formulas a conversion table a trim and stability booklet hydrostatic curve graphs and a glossary of terms symbols and abbreviations this well established textbook has been fully reviewed and updated by a new author to ensure a modern coverage of the contents in depth a new unique introduction has been written giving ship types together with their general characteristics to indicate to the reader actual or typical sizes of modern day merchant vessels four new chapters have been added dealing with ship squat the deadweight scale interaction and the trim and stability book a new section on draft surveys is included in the appendices in order to give the student a better understanding of ship strength four smaller but more detailed chapters replace the chapter covering this subject area in the previous edition ship stability with respect to motions can be defined as the ability of a ship to return to an initial condition after she has been subjected to disturbing forces and moments ship stability can also exist with respect to materials stresses and forces where 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relation with appearance of new and unconventional types of ships assessment of stability of these ships cannot rely on the existing experience and has to be based on the first principles as the complexity of the physical processes responsible for stability failure have increasingly made time domain numerical simulation the main tool for stability assessment particular emphasis is made on the development an application of such tools the included papers have been selected by the editorial committee and have gone through

an additional review process with at least two reviewers allocated for each many of the papers have been significantly updated or expanded from their original version in order to best reflect the state of knowledge concerning stability at the time of the book s publication the book consist of four parts mathematical model of ship motions in waves dynamics of large motions experimental research and requirements regulations and operations

Ship Stability: Notes and Examples

2000-12-12

the kemp and young series provides a general introduction to a number of subject areas in a style that will be ideally suited for those wishing to learn more the concise presentation of the subject matter is made possible by the reduction of the work to its simplest terms this is achieved through the omission of unnecessary mathematics or mathematical concepts and the generous use of diagrams and illustrations rapid reference to the substance of each topic can be made by use of the carefully constructed index the third edition of ship stability notes and examples has been updated by dr c b barrass who has wide experience in both industry and the academic field the book has been thoroughly revised and expanded to be more in line with current examinations and now covers topics such as ship squat angle of heel whilst turning and moments of inertia via simpson s rules also included is a diagram showing deadweight moment ship stability notes and examples is an invaluable tool to aid in the passing of maritime examinations updated volume of the popular kemp and young series for the new millennium 66 fully worked examples with a further 50 giving final answers

Ship Stability for Masters and Mates

2012-10-19

linking ship stability and ship motions endnotes

Contemporary Ideas on Ship Stability

2023-03-28

this book is a selection of research papers presented in 5 consecutive international ship stability workshops issws managed by the stab international standing committee in the period 2013 2019 2013 brest 2014 kuala lumpur 2016 stockholm 2017 belgrade 2019 helsinki issws are a long standing and authoritative series of international technical meetings in the field of stability of ships and ocean vehicles the book is the fourth of a line of books started 20 years ago and having the main title contemporary ideas on ship stability it focuses on the state of the art ship stability criteria and covers topics such as ship dynamics in waves roll damping stability of damaged ships model experiments and effect of stability requirements on ship design and operation this book helps the readers to understand the current state of the art in the field of ship stability and see how this comes into the development of modern criteria of ship design and operation

Basic Naval Architecture

2018-02-09

this textbook provides readers with an understanding of the basics of ship stability as it has been enacted in international law the assessment of ship stability has evolved considerably since the first solas convention after the sinking of the rms titanic and this book enables readers to familiarise themselves with the most up to date modern day methodology as well as looking ahead to the effects on ship design over the next fifty years the author not only explains the methodology of probabilistic ship damage as required by the international maritime organisation imo but also details the new requirements to assess certain sizes and

classes of ships to the seven second generation ship stability requirements many textbooks that are currently used by undergraduates focus on the geometric centric deterministic approach to the assessment of ship stability whereas this book also includes material on the classes of ships that are now required to have probabilistic ship damage assessment as has only recently been agreed by the imo basic naval architecture ship stability contains up to date information making it ideal for university students studying ocean or marine engineering as well as being of interest to students on naval architecture and ship science courses highly illustrated and including chapter studies for ease of learning the book is an ideal one volume textbook for students

The Principles and Practices of Ship Stability

1984

included in back pocket is supplement roll on roll off vessels guidelines to their safe handling

Ship Hydrostatics and Stability

2013-10-17

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

Merchant Ship Stability

2013-10-22

merchant ship stability presents the theory and application of methods for maintaining ship stability it serves as a textbook for deck officers and first year degree students the book discusses the methods of simpson s rules for measuring ship form the principle of floatation finding the position of the center of gravity and the effect of the center of gravity of the vessel not being on the centerline the effect of having liquids within the vessel which are free to move and the effect of suspending weights topics on the assessment of stability of large angles of heel regulations about merchant vessel stability and dry docking and grounding are provided as well deck officers and merchant marine students will find the book very useful

Ship Stability for Masters and Mates

1999

ship types and general characteristics forces and moments centroids and the centre of gravity density and specific gravity laws of flotation effect of density on draft and displacement transverse statical stability effect of free surface of liquids on stability tpc and displacement curves form coefficients simpson s rules for areas and centroids final kg calculating kb bm and metacentric diagrams list moments of statical stability trim stability and hydrostatic curves increase in draft due to list water pressure combined list and trim calculating the effect of free surface liquids fse bilging and permeability dynamical stability effect of beam and freeboard on stability angle of loll true mean draft the inclining experiment effect of trim on tank soundings drydocking and grounding second moments of areas liquid pressure and thrust centres of pressure ship squat heel due to a vessel turning unresisted rolling in still water list due to bilging side compartments the deadweight scale interaction effect of change of density on draft and trim list with zero metacentric height the trim and stability book bending of beams bending of ships strength curves for ships bending and shear stresses simplified stability information appendices include summary of formulae conversion tables revision one liners how to pass examinations in maritime studies draft surveys

Reeds Vol 13: Ship Stability, Powering and Resistance

2014-04-10

introduction to concepts of ship stability resistance and powering relevant to marine professionals including naval architects and merchant navy deck and engineering officers

Contemporary Ideas on Ship Stability and Capsizing in Waves

2011-07-03

during the last decade significant progress has been made in the field of ship stability yet in spite of the progress made numerous scientific and practical challenges still exist with regard to the accurate prediction of extreme motion and capsize dynamics for intact and damaged vessels the probabilistic nature of extreme events criteria that properly reflect the physics and operational safety of an intact or damaged vessel and ways to provide relevant information on safe ship handling to ship operators this book provides a comprehensive review of the above issues through the selection of representative papers presented at the unique series of international workshops and conferences on ship stability held between 2000 and 2009 the editorial committee has selected papers for this book from the following events stab 2000 conference launceston tasmania 5th stability workshop trieste 2001 6th stability workshop long island 2002 stab 2003 conference madrid 7th stability workshop shanghai 2004 8th stability workshop istanbul 2005 stab 2006 conference rio de janeiro 9th stability workshop hamburg 2007 10th stability workshop daejeon 2008 and stab 2009 conference st petersburg the papers have been clustered around the following themes stability criteria stability of the intact ship parametric rolling broaching nonlinear dynamics roll damping probabilistic assessment of ship capsize environmental modelling damaged ship stability cfd applications design for safety naval vessels and accident investigations

Ship Stability for Masters and Mates

1990-01-01

this well established textbook has been fully reviewed and updated by a new author to ensure a modern coverage of the contents in depth a new unique introduction has been written giving ship types together with their general characteristics to indicate to the reader actual or typical sizes of modern day merchant vessels four new chapters have been added dealing with ship squat the deadweight scale interaction and the trim and stability book a new section on draft surveys is included in the appendices in order to give the student a better understanding of ship strength four smaller but more detailed chapters replace the chapter covering this subject area in the previous edition ship stability with respect to motions can be defined as the ability of a ship to return to an initial condition after she has been subjected to disturbing forces and moments ship stability can also exist with respect to materials stresses and forces where it is the ability to return to an initial state after being subjected to external or internal forces careful attention has been paid to the basic principles of ship stability and ship strength included is a generous provision of worked examples and exercise questions with answers these ensure that the maritime student who works through this book will have a clear grasp of the topics covered up to date syllabuses and recent examination papers are included at the end of this book

The Principles of Ship Stability

1954

understanding ship stability is critical for all maritime students or professionals who are studying for a deck or engineering certificate of competency or seeking promotion to a higher rank within any branch of the merchant marine or navy the sixth edition of the now classic ship stability provides a comprehensive introduction to all aspects of ship stability and ship strength squat interaction and trim materials stresses and forces the market leading ship stability text widely used at sea and on shore new content inclues coverage of now mandatory double skin tankers and fast ferries meets stcw standards of training certification watchkeeping requirements and includes self examination material essential reading for professionals and students alike

Ship Stability & Trim

1918

also available on cd rom

Ship Stability Notes & Examples

1971

stability and trim for the ship s officer has been completely updated after twenty two years aboard today s vessels technology and computers abound as ship s gear the once long and tedious calculations for stability trim and hull strength are now done in minutes but no matter how much change the industry has undergone the laws of physics are constant the only way to verify that the computer is coming up with accurate figures is to read the ship s drafts x000d two new chapters have been included prerequisites for stability trim and hull strength calculations and u s coast guard questions on stability trim and longitudinal hull strength

the appendix has also been updated to include the stability data reference book august 1989 edition which is the same supplied in the united states coast guard license examination room x000d author

Stability and Safety of Ships

2007

during the past few years there have been considerable changes in the approach to ship stability so far as it affects the merchant seaman the most obvious of these is the introduction of metric units in addition examination requirements have been increased and recommendations for a standard method of presenting and using stability information have been produced which will undoubtedly be reflected in the various examinations

Ship Stability

2008

includes bibliographical references and index

Trim and Stability Guide for Container and Barge Carrying Ships

1972

since it was first published in 1946 this book has become the definitive text on ship stability it is written from the point of view of the merchant officer and correctly assumes that the officer does not want to wade through unnecessary technical terms it impresses upon the reader the fact that stability is a practical though not easy subject that can be used to increase the safety of the vessel and the comfort of the crew in addition to extensive sections on transverse and longitudinal stability the book includes treatment of hull strength and shipboard applications including the effects of damage to the ship a chapter on marine disasters demonstrates the need for attention to this vital aspect of shipboard management and a generous section of appendices includes questions and problems on stability useful stability and trim formulas a conversion table a trim and stability booklet hydrostatic curve graphs and a glossary of terms symbols and abbreviations

Ship Stability Notes and Examples

1971-01-01

this well established textbook has been fully reviewed and updated by a new author to ensure a modern coverage of the contents in depth a new unique introduction has been written giving ship types together with their general characteristics to indicate to the reader actual or typical sizes of modern day merchant vessels four new chapters have been added dealing with ship squat the deadweight scale interaction and the trim and stability book a new section on draft surveys is included in the appendices in order to give the student a better understanding of ship strength four smaller but more detailed chapters replace the chapter covering this subject area in the previous edition ship stability with respect to motions can be defined as the ability of a ship to return to an initial condition after she has been subjected to disturbing forces and moments ship stability can also exist with respect to materials stresses and forces where it is the ability to return to an initial state after being subjected to external or

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Ship Stability for Masters and Mates

2011-02-23

this book contains a selection of research papers presented at the 11th and 12th international ship stability workshops wageningen 2010 and washington dc 2011 and the 11th international conference on stability of ships and ocean vehicles athens 2012 the book is directed toward the ship stability community and presents innovative ideas concerning the understanding of the physical nature of stability failures and methodologies for assessing ship stability particular interest of the readership is expected in relation with appearance of new and unconventional types of ships assessment of stability of these ships cannot rely on the existing experience and has to be based on the first principles as the complexity of the physical processes responsible for stability failure have increasingly made time domain numerical simulation the main tool for stability assessment particular emphasis is made on the development an application of such tools the included papers have been selected by the editorial committee and have gone through an additional review process with at least two reviewers allocated for each many of the papers have been significantly updated or expanded from their original version in order to best reflect the state of knowledge concerning stability at the time of the book s publication the book consist of four parts mathematical model of ship motions in waves dynamics of large motions experimental research and requirements regulations and operations

A Treatise on the Stability of Ships

1885

The Principles of Ship Stability

1971

Ship Stability

1966

Ship Stability

1959

Ship Stability

2010

Ship Stability for Mates/masters

2003-01-01

Stability and Trim for the Ship's Officer

1956

Stability and Trim for the Ship's Officer

2005

Ship Stability

2007

Merchant Ship Stability

2011

The Principles of Ship Stability

1977

Ship Stability

2004

Ship Stability

1984

The Management of Merchant Ship Stability, Trim and Strength

2002

Stability and Trim for the Ship's Officer

1983

Ship Stability for Masters and Mates

1999-09-10

Ship Stability OOW

2009

Recommendation on Intact Stability for Passenger and Cargo Ships Under 100 Metres in Length, as Amended with Respect to Ships Carrying Deck Cargoes

1975

Aids to Stability: a ... Guide to the General Principles of Ship Stability

1904

Contemporary Ideas on Ship Stability

2019-01-01

Simple Ship Stability

1993-01-01

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