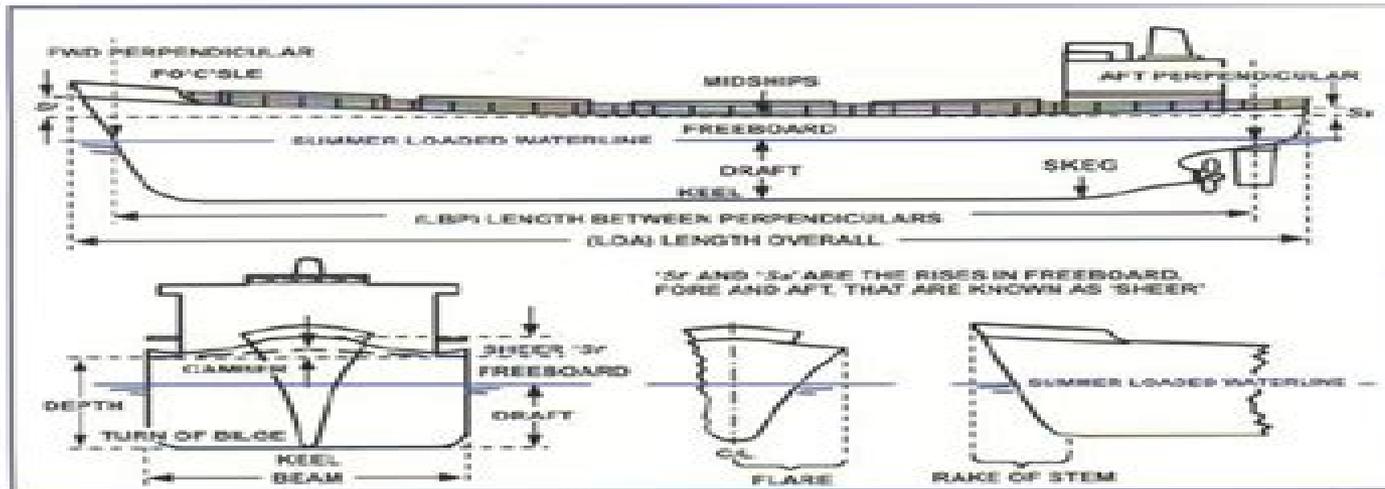


BASIC OF NAVAL ARCHITECTURE



Fore perpendicular: It is the vertical line passing through the point of intersection of the summer load line with forward side of the stem.

Aft perpendicular: It is the line perpendicular to the waterplane and passing through the centerline of the rudder pintles.

Length between perpendiculars (lbp): The distance measured along the summer load water plane from fore to aft perpendicular is known as *length between perpendiculars*.

Length overall (loa): It is the distance measured parallel to the summer load waterline between the extreme points at the forward and the aft. The extreme point at the forward can be taken on the bulbous bow.

Length on the waterline (lwl): It is the distance measured between the intersections points of the bow and the after end with the summer load waterline. In case it is not mentioned, the length of the summer load waterline is taken into consideration as the length of the waterline.

Midship or amid ship : The midpoint between the aft and the forward perpendicular is known as midship or amid ship. The section passing through this point and which is normal to the waterplane is called *midship section*. The term 'beam' is quoted at amid ship. The *breadth extreme* is measured at amid ship. It is also known as *moulded breadth line*.

Basic Naval Architecture

K. J. Rawson, E. C. Tupper



Basic Naval Architecture:

Basic Naval Architecture Kenneth C. Barnaby, 1963 *Basic Naval Architecture* Philip A. Wilson, 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.

Introduction to Naval Architecture E. C. Tupper, 2013-01-09 Written by an award winning naval architecture author and former vice president of the Royal Institution of Naval Architects (RINA) the fifth edition of *Introduction to Naval Architecture* has been fully updated to take in advances in the field and is ideal both for those approaching the subject for the first time and those looking to update or refresh their knowledge on areas outside of their direct expertise. This book provides a broad appreciation of the science and art of naval architecture explaining the subject in physical rather than in mathematical terms. While covering basic principles such as hull geometry, propulsion and stability the book also addresses contemporary topics such as computer aided design and computer aided manufacture (CAD/CAM). The new edition reflects the continuing developments in technology, changes in international regulations and recent research. Knowledge of the fundamentals of naval architecture is essential not only for newcomers to the field but also the wealth of non naval architects working in the marine area including marine engineers, marine surveyors and ship crews. This book provides the most well known and trusted introduction to the topic offering a clear and concise take on the basics of this broad field. Praise for previous edition: a clear and concise introduction to the subject giving a good grasp of the basics of naval architecture. *Maritime Journal* my go to book for understanding the general principles of naval architecture. The book is well written and easy to understand. Amazon.com reviewer: Provides a perfect introduction to naval architecture for newcomers to the field and a compact overview for related marine professionals needing a working knowledge of the area. Updated to cover key developments including double hulled tankers and the increased use of computational methods and modeling in ship design. Draws on the experience of renowned naval architecture author Eric

Tupper to provide extensive scope and authoritative detail all in an accessible and approachable style

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Table of Contents Basic Naval Architecture

1. Understanding the eBook Basic Naval Architecture
 - The Rise of Digital Reading Basic Naval Architecture
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Naval Architecture
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Basic Naval Architecture
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Naval Architecture
 - Personalized Recommendations
 - Basic Naval Architecture User Reviews and Ratings
 - Basic Naval Architecture and Bestseller Lists
5. Accessing Basic Naval Architecture Free and Paid eBooks
 - Basic Naval Architecture Public Domain eBooks
 - Basic Naval Architecture eBook Subscription Services
 - Basic Naval Architecture Budget-Friendly Options

6. Navigating Basic Naval Architecture eBook Formats
 - ePub, PDF, MOBI, and More
 - Basic Naval Architecture Compatibility with Devices
 - Basic Naval Architecture Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Naval Architecture
 - Highlighting and Note-Taking Basic Naval Architecture
 - Interactive Elements Basic Naval Architecture
8. Staying Engaged with Basic Naval Architecture
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Naval Architecture
9. Balancing eBooks and Physical Books Basic Naval Architecture
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Naval Architecture
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Basic Naval Architecture
 - Setting Reading Goals Basic Naval Architecture
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Basic Naval Architecture
 - Fact-Checking eBook Content of Basic Naval Architecture
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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