

MARINE VEHICLE WEIGHT ENGINEERING

A Publication of the Society of Allied Weight Engineers, Inc.

A Comprehensive Textbook and Reference Guide for Naval Architects, Weight Engineers, and Ship Designers

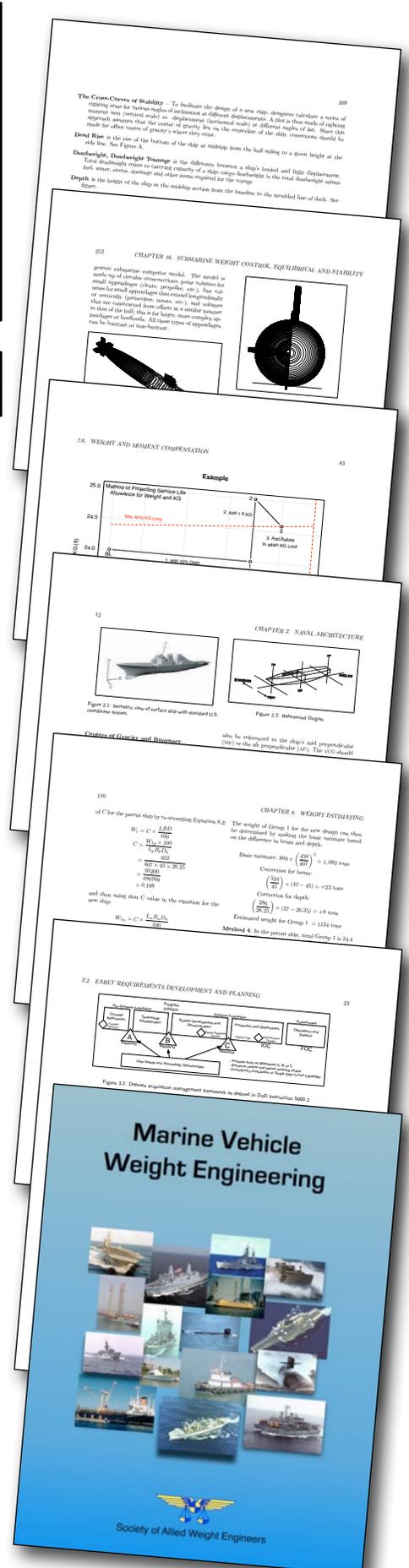
The Society of Allied Weight Engineers (SAWE Inc.) is pleased to announce the publication of the first book in the world dedicated to the subject of mass properties and weight engineering in the marine industry. *Marine Vehicle Weight Engineering* is a comprehensive guide to this fundamental and vital aspect of naval architecture and marine engineering and is designed to give the novice or experienced weight engineer a complete view of how weight engineering is accomplished for military and commercial marine vehicles.

This book is also a valuable reference for program managers, ship design professionals, and even cost engineers who need to understand the processes, tools, constraints, and history of weight engineering and mass properties of ships, submarines, and other marine vehicles.

This reference was designed, written, and edited entirely by volunteers who are leading experts in the field and whose only agenda was to ensure that this valuable information was recorded and made available to the marine industry, weight engineers, and students interested in this important subject.

TOPICS

Ship Design Requirements
Ship Weight Estimating Process
Weight Control and Improvement Programs
Weight Estimating and Calculation
Weight Measurement and Validation
Basic Surface Ship and Submarine Naval Architecture
Worked example problems
Full Glossary and reference tables



Contents of *Marine Vehicle Weight Engineering*

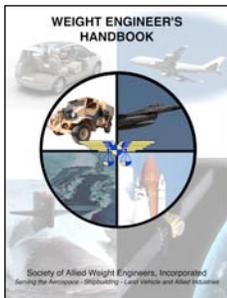
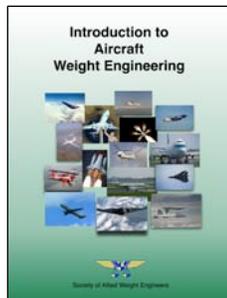
Introduction	Ship Weight Measurement
Naval Architecture	Economics of Mass Properties
Ship Acquisition Process	Risk Management
Weight Control Processes	Submarine Weight Control, Equilibrium, and Stability
Weight Control Products	Other Applications of Mass Properties
Management of Mass Properties	Engineering
Acquisition Margins and Service Life Allowances	Glossary
Weight Estimating	ESWBS Listing
Weight Calculation	MARAD Weight Classification Listing
Weighing	Sample Weight Control Plan
Vendor Weight Control	Weight Tables
Weight Improvement Programs	Index

17 Chapters, over 400 pages, 134 figures, 66 tables, and 19 worked examples.

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Introduction to Aircraft Weight Engineering



Weight Engineer's Handbook

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About SAWE, Inc.

The Society of Allied Weight Engineers is an international organization whose purpose is to promote the recognition of Weight Engineering as a specialized branch of engineering. The Society is organized into 22 chapters with members from across the United States, Europe, United Kingdom, and Canada.

The Society offers to members and industry a medium for the pooling and exchange of data and experience at local and regional levels, fostering a higher degree of efficiency in mass properties engineering topics. Regular chapter, regional and international meetings provide an opportunity for mass properties engineers to meet and to discuss mutual problems, procedures and specifications, thus broadening their individual horizons and becoming better informed.

Membership information can be found at WWW.SAWE.ORG