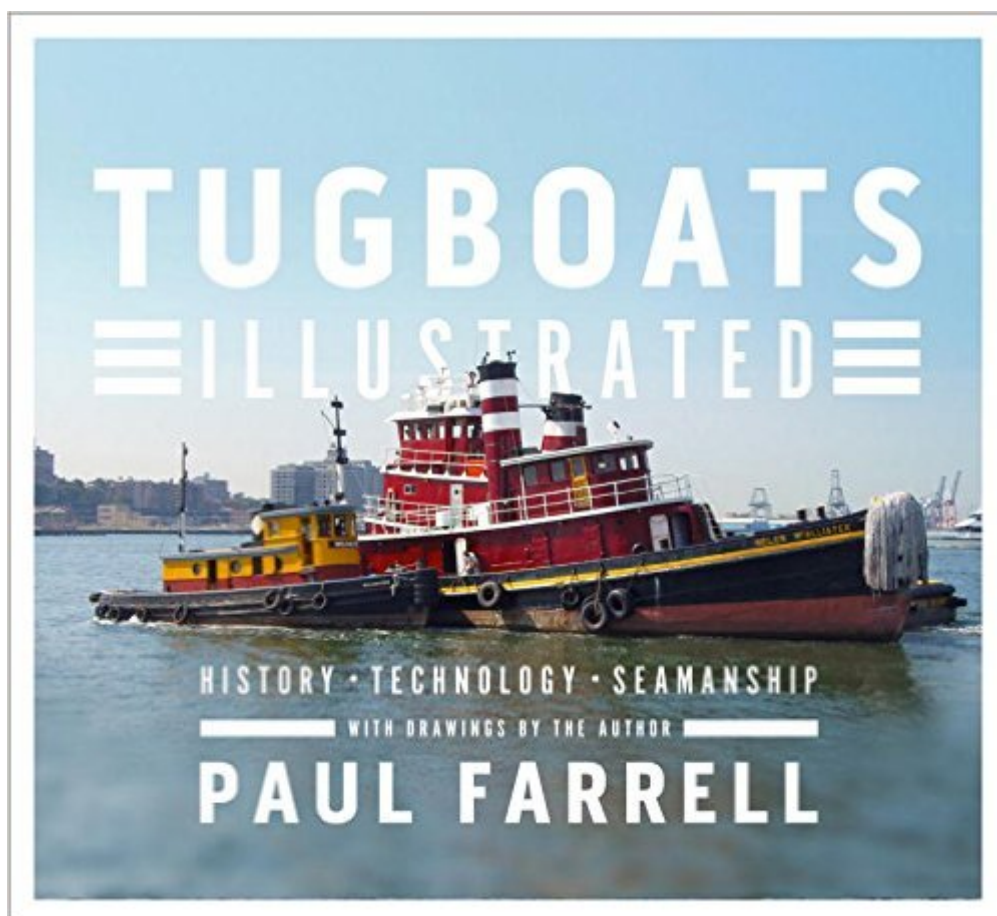


The book was found

Tugboats Illustrated: History, Technology, Seamanship



Synopsis

A gorgeously detailed guide to the evolution, design, and role of tugboats, from the earliest days of steam to today's most advanced ocean-going workboats. From river to harbor to ocean, tugboats are among the most ubiquitous but underappreciated craft afloat. Whether maneuvering ships out from between tight harbor finger piers, pushing rafts of forty barges up the Mississippi, towing enormous oil rigs, or just delivering huge piles of gravel to a river port near you, tugs exude a sense of genial strength guided by the wise experience of their crews. We can admire the precision of their coordination, the determination in their movements, the glow of signal lights at night, silently communicating their condition and intentions to vessels nearby. It is nearly impossible not to be intrigued and impressed by the way tugs work. In *Tugboats Illustrated*, Paul Farrell traces the evolution, design, and role of tugboats, ranging from the first steam-powered tug to today's hyper-specialized offshore workboats. Through extensive photographs, dynamic drawings, and enlightening diagrams, he explores the development of these hard-working boats, always shaped by the demands of their waterborne environment, by an ever-present element of danger, and by advancements in technology. Whether making impossible turns in small spaces, crashing through huge swells, pushing or pulling or prodding or coaxing or escorting, we come to understand not only what tugs do, but how physics and engineering allow them to do it. From the deck layout of a nineteenth-century sidewheel tug to the mechanics of barge towing—whether by humans, mules, steam or diesel engines—to the advantages of various types and configurations of propulsion systems, to the operation of an oil rig anchor-handling tug/supply vessel, *Tugboats Illustrated* is a comprehensive tribute to these beloved workhorses of the sea and their intrepid crews. 300 color photos and drawings

Book Information

Hardcover: 192 pages

Publisher: W. W. Norton & Company; Ill edition (November 29, 2016)

Language: English

ISBN-10: 0393069311

ISBN-13: 978-0393069310

Product Dimensions: 11.9 x 0.8 x 10.8 inches

Shipping Weight: 2.8 pounds (View shipping rates and policies)

Best Sellers Rank: #1,012,884 in Books (See Top 100 in Books) #124 in Books > Arts &

Photography > Vehicle Pictorials > Ships #1535 in Books > Engineering & Transportation >

[Download to continue reading...](#)

Tugboats Illustrated: History, Technology, Seamanship Tugboats of New York: An Illustrated History Oceanography and Seamanship Blockchain: The Comprehensive Guide to Mastering the Hidden Economy: (Blockchain Technology, Fintech, Financial Technology, Smart Contracts, Internet Technology) Iron Coffin: War, Technology, and Experience aboard the USS Monitor (Johns Hopkins Introductory Studies in the History of Technology) The Middle Ages: An Illustrated History (Oxford Illustrated History) Illustrated Thesaurus (Usborne Illustrated Dictionaries) (Usborne Illustrated Dictionaries) Networks and Grids: Technology and Theory (Information Technology: Transmission, Processing and Storage) Introduction to Hydro Energy Systems: Basics, Technology and Operation (Green Energy and Technology) Drills: Science and Technology of Advanced Operations (Manufacturing Design and Technology) Low-Dimensional Semiconductors: Materials, Physics, Technology, Devices (Series on Semiconductor Science and Technology) Introduction to Radiologic Technology, 7e (Gurley, Introduction to Radiologic Technology) The Laws of Simplicity: Design, Technology, Business, Life Design, Technology, Business, Life Technology In Action Introductory (13th Edition) (Evans, Martin & Poatsy, Technology in Action Series) BLOCKCHAIN: Your Comprehensive Guide To Understanding The Decentralized Future (Ethereum, Fintech, Cryptocurrency, Bitcoin, Technology Trends, Technology, Internet) Adobe Illustrator CS6 Illustrated with Online Creative Cloud Updates (Adobe CS6 by Course Technology) Vascular Technology: An Illustrated Review Vascular Technology: An Illustrated Review, Fourth Edition Alexander: The Great Leader and Hero of Macedonia and Ancient Greece (European History, Ancient History, Ancient Rome, Ancient Greece, Egyptian History, Roman Empire, Roman History) History: History of Money: Financial History: From Barter to "Bitcoin" - An Overview of Our: Economic History, Monetary System, & Currency Crisis (Digital ... Federal Reserve, Currency Crisis Book 1)

[Dmca](#)