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Ship Construction, Seventh Edition



Synopsis

Ship Construction, Seventh Edition, offers guidance for ship design and shipbuilding from start to finish. It provides an overview of current shipyard techniques, safety in shipyard practice, materials and strengths, welding and cutting, and ship structure, along with computer-aided design and manufacture, international regulations for ship types, new materials, and fabrication technologies. Comprised of seven sections divided into 32 chapters, the book introduces the reader to shipbuilding, including the basic design of a ship, ship dimensions and category, and development of ship types. It then turns to a discussion of rules and regulations governing ship strength and structural integrity, testing of materials used in ship construction, and welding practices and weld testing. Developments in the layout of a shipyard are also considered, along with development of the initial structural and arrangement design into information usable by production; the processes involved in the preparation and machining of a plate or section; and how a ship structure is assembled. A number of websites containing further information, drawings, and photographs, as well as regulations that apply to ships and their construction, are listed at the end of most chapters. This text is an invaluable resource for students of marine sciences and technology, practicing marine engineers and naval architects, and professionals from other disciplines ranging from law to insurance, accounting, and logistics. Covers the complete ship construction process including the development of ship types, materials and strengths, welding and cutting and ship structure, with numerous clear line diagrams included for ease of understanding. Includes the latest developments in technology and shipyard methods, including a new chapter on computer-aided design and manufacture. Essential for students and professionals, particularly those working in shipyards, supervising ship construction, conversion and maintenance.

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Customer Reviews

I was hoping that this book of Ship Construction would have graphics defining how the ship is put together with photos and drawings in today's construction methods. Unfortunately it does not fill the bill. The Society of Naval Architects and Marine Engineers' publication Design and Construction of Steel Merchant Ships is far better at illustrating the construction techniques from the mid 1950's. There have been updated versions subsequent to the book edited by David Arnott. There is also a better book put out by Reed's series on ship design which has line drawings to illustrate the construction techniques which has been updated over the years. I wish that Mr. Bruce's book did more illustrating of the bow structure, the stern framework, the double bottom tankers strength members, and the strength members and plating which are integrated to make the ship strong and seaworthy.

I am doing my masters and mates now and this book has been a valuable help for my in my study

It is not very detailed, it only covers the basics. It is probably good for those just getting started in the marine world.

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