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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.

## Book Information

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## Customer Reviews

"Both now retired from teaching, Eyres and Bruce update their textbook (first published in 1971) from the 2007 edition. It introduces ship design and shipbuilding practice to advanced undergraduate students of marine sciences and technology. It can also be used as a study guide for the Extra Master examinations, and as background for students of shipbuilding itself."--Reference & Research Book News, December 2013

Professor George Bruce, has 30 years' industrial experience in shipbuilding, including more recent roles in facilities development, research and innovation. He has acted as a consultant to shipbuilders and marine companies across the world and contributed to committees, steering groups and associations across the industry. He currently teaches and conducts research at the Newcastle University School of Marine Science and Technology, Newcastle, UK. Former lecturer in Naval Architecture at Plymouth University, UK, and former Manager of Policy and Standards Development with the Maritime Safety Authority of New Zealand.

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 me 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.

Very good!

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