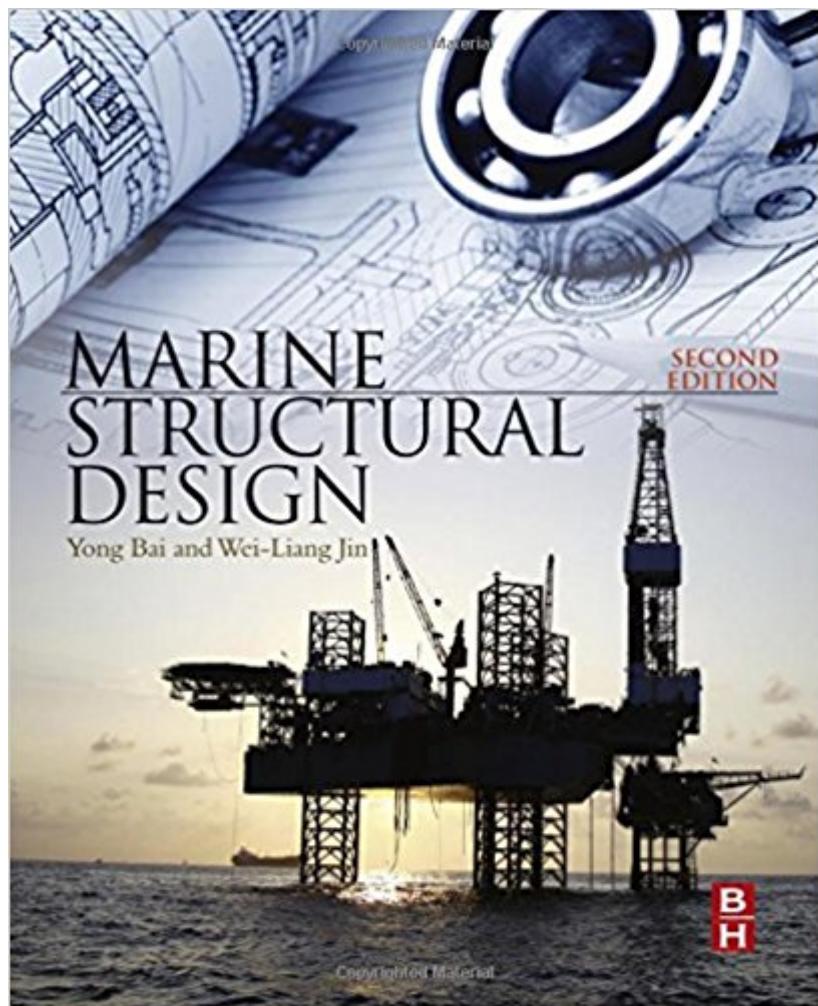


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# Marine Structural Design, Second Edition



## Synopsis

Marine Structural Design, Second Edition, is a wide-ranging, practical guide to marine structural analysis and design, describing in detail the application of modern structural engineering principles to marine and offshore structures. Organized in five parts, the book covers basic structural design principles, strength, fatigue and fracture, and reliability and risk assessment, providing all the knowledge needed for limit-state design and re-assessment of existing structures. Updates to this edition include new chapters on structural health monitoring and risk-based decision-making, arctic marine structural development, and the addition of new LNG ship topics, including composite materials and structures, uncertainty analysis, and green ship concepts. Provides the structural design principles, background theory, and know-how needed for marine and offshore structural design by analysisCovers strength, fatigue and fracture, reliability, and risk assessment together in one resource, emphasizing practical considerations and applicationsUpdates to this edition include new chapters on structural health monitoring and risk-based decision making, and new content on arctic marine structural design

## Book Information

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## Customer Reviews

Dr. Yong Bai obtained a Ph.D. in Offshore Structures at Hiroshima University, Japan in 1989. He is currently President of Offshore Pipelines and Risers (OPR Inc., a design/consulting firm in the field of subsea pipelines, risers and floating systems. In the 1990's, he had been a technical leader for several Asgard Transport pipeline and flowline projects at JP Kenny as Manager of the advanced engineering department. Yong was previously a lead riser engineer at Shell and assisted in offshore

rules development at the American Bureau of Shipping (ABS) as Manager of the offshore technology department. While a professor, he wrote several books and served as a course leader on the design of subsea pipelines and irsers as well as design of floating systems. He also serves at Zhejiang University in China as professor.Fellow of the Institute of Civil Engineers (ICE) and an honorary professor in Queen's University, UK. His research interest includes structural reliability, durability of reinforced concrete structure, health monitoring of concrete structures, and fundamental theories of concrete structures and their applications. He founded the group on Durability of Concrete Structures in 1995 at Zhejiang University, which carries out research on the durability problems regarding environments, materials, concrete components and structures. He has been awarded 20 research grants by the Chinese government and has published more than 200 articles, co-authored 9 monographs. He also won 3 National Awards for Science and Technology Progress and 5 Science & Technology Awards of Zhejiang Province. Prof. Jin previously held research fellowships from the Alexander von Humboldt Foundation and the Norwegian Council of Research.

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