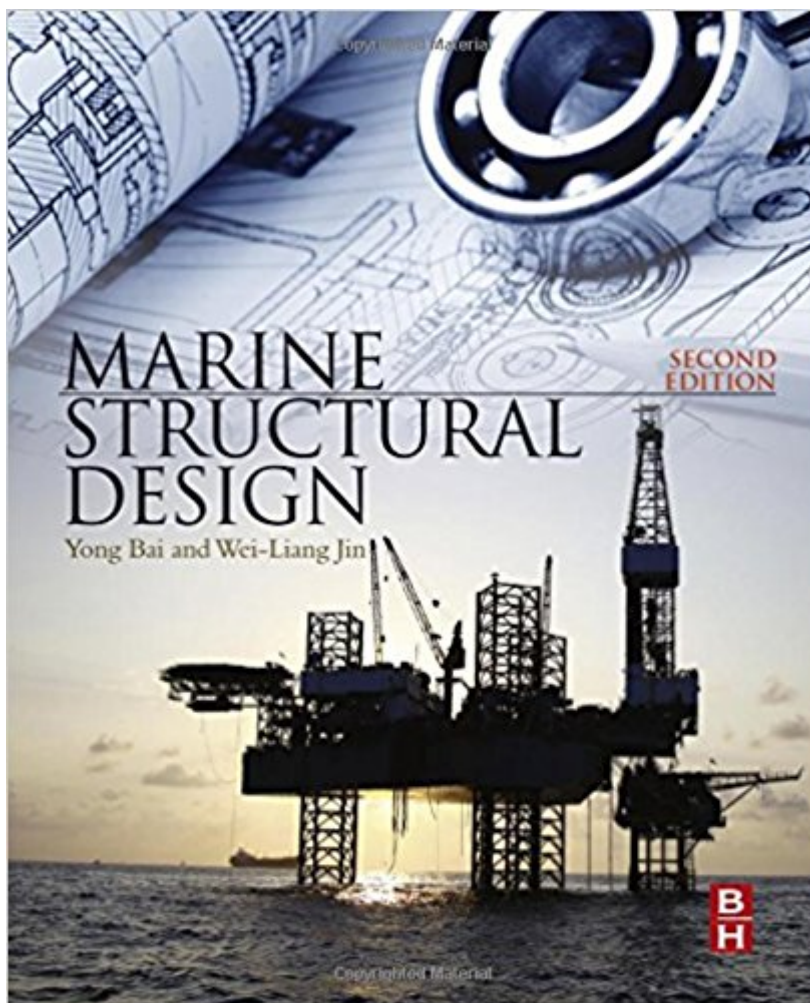


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Marine Structural Design, Second Edition



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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 analysis Covers strength, fatigue and fracture, reliability, and risk assessment together in one resource, emphasizing practical considerations and applications Updates to this edition include new chapters on structural health monitoring and risk-based decision making, and new content on arctic marine structural design

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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

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