



Marine Structural Design, Second Edition

Yong Bai, Wei-Liang Jin

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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
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