

1. Record Nr.	UNINA9910784636703321
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Titolo	Marine structural design / / Yong Bai
Pubbl/distr/stampa	Amsterdam ; ; Boston : , : Elsevier, , 2003
ISBN	1-281-07043-2 9786611070434 0-08-053583-6
Edizione	[First edition.]
Descrizione fisica	1 online resource (627 pages) : illustrations
Disciplina	627/98
Soggetti	Offshore structures - Design and construction Naval architecture
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Marine Structural Design; Copyright Page; Preface; Table of Contents; Part I: Structural Design Principles; Chapter 1. Introduction; 1.1 Structural Design Principles; 1.2 Strength and Fatigue Analysis; 1.3 Structural Reliability Applications; 1.4 Risk Assessment; 1.5 Layout of This Book; 1.6 How to Use This Book; 1.7 References; Chapter 2. Wave Loads for Ship Design and Classification; 2.1 Introduction; 2.2 Ocean Waves and Wave Statistics; 2.3 Ship Response to a Random Sea; 2.4 Ship Design for Classification; 2.5 References Chapter 3. Loads and Dynamic Response for Offshore Structures; 3.1 General; 3.2 Environmental Conditions; 3.3 Environmental Loads and Floating Structure Dynamics; 3.4 Structural Response Analysis; 3.5 Extreme Values; 3.6 Concluding Remarks; 3.7 References; 3.8 Appendix A: Elastic Vibrations of Beams; Chapter 4. Scantling of Ship's Hulls by Rules; 4.1 General; 4.2 Basic Concepts of Stability and Strength of Ships; 4.3 Initial Scantling Criteria for Longitudinal Strength; 4.4 Initial Scantling Criteria for Transverse Strength; 4.5 Initial Scantling Criteria for Local Strength; 4.6 References Chapter 5. Ship Hull Scantling Design by Analysis; 5.1 General; 5.2 Design Loads; 5.3 Strength Analysis using Finite Element Methods; 5.4 Fatigue Damage Evaluation; 5.5 References; Chapter 6. Offshore Structural Analysis; 6.1 Introduction; 6.2 Project Planning; 6.3 Use of

Finite Element Analysis; 6.4 Design Loads and Load Application; 6.5 Structural Modeling; 6.6 References; Chapter 7. Limit-State Design of Offshore Structures; 7.1 Limit State Design; 7.2 Ultimate Limit State Design; 7.3 Fatigue Limit State Design; 7.4 References; Part II: Ultimate Strength

Chapter 8. Buckling/Collapse of Columns and Beam-Columns; 8.1 Buckling Behavior and Ultimate Strength of Columns; 8.2 Buckling Behavior and Ultimate Strength of Beam-Columns; 8.3 Plastic Design of Beam-Columns; 8.4 Examples; 8.5 References; Chapter 9. Buckling and Local Buckling of Tubular Members; 9.1 Introduction; 9.2 Experiments; 9.3 Theory of Analysis; 9.4 Calculation Results; 9.5 Conclusions; 9.6 Example; 9.7 References; Chapter 10. Ultimate Strength of Plates and Stiffened Plates; 10.1 Introduction; 10.2 Combined Loads; 10.3 Buckling Strength of Plates

10.4 Ultimate Strength of Un-Stiffened Plates; 10.5 Ultimate Strength of Stiffened Panels; 10.6 Gross Buckling of Stiffened Panels (Overall Grillage Buckling); 10.7 References; Chapter 11. Ultimate Strength of Cylindrical Shells; 11.1 Introduction; 11.2 Elastic Buckling of Unstiffened Cylindrical Shells; 11.3 Buckling of Ring Stiffened Shells; 11.4 Buckling of Stringer and Ring Stiffened Shells; 11.5 References; Chapter 12. A Theory of Nonlinear Finite Element Analysis; 12.1 General; 12.2 Elastic Beam-Column With Large Displacements; 12.3 The Plastic Node Method; 12.4 Transformation Matrix; 12.5 Appendix A: Stress-Based Plasticity Constitutive Equations

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#### Sommario/riassunto

This new reference describes the applications of modern structural engineering to marine structures. It will provide an invaluable resource to practicing marine and offshore engineers working in oil and gas as well as those studying marine structural design. The coverage of fatigue and fracture criteria forms a basis for limit-state design and reassessment of existing structures and assists with determining material and inspection requirements. Describing applications of risk assessment to marine and offshore industries, this is a practical and useful book to help engineers conduct structural

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2. Record Nr.	UNINA9910299995003321
Autore	Pitacco Ermanno
Titolo	Health Insurance : Basic Actuarial Models / / by Ermanno Pitacco
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-12235-5
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (XII, 162 p. 77 illus., 14 illus. in color.)
Collana	EAA Series, , 1869-6929
Disciplina	351.72
Soggetti	Actuarial science Actuarial Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The individual perspective: the need for health insurance -- The insurer's perspective: managing risks -- Health insurance products -- Introduction to actuarial aspects -- Actuarial models for sickness insurance -- Actuarial models for disability annuities.
Sommario/riassunto	Health Insurance aims at filling a gap in actuarial literature, attempting to solve the frequent misunderstanding in regards to both the purpose and the contents of health insurance products (and 'protection products', more generally) on the one hand, and the relevant actuarial structures on the other. In order to cover the basic principles regarding health insurance techniques, the first few chapters in this book are mainly devoted to the need for health insurance and a description of insurance products in this area (sickness insurance, accident insurance, critical illness covers, income protection, long-term care insurance, health-related benefits as riders to life insurance policies). An introduction to general actuarial and risk-management issues follows. Basic actuarial models are presented for sickness insurance and income protection (i.e. disability annuities). Several numerical examples help the reader understand the main features of pricing and reserving in the health insurance area. A short introduction to actuarial models for long-term care insurance products is also provided. Advanced undergraduate and graduate students in actuarial sciences; graduate students in economics, business and finance; and professionals and technicians operating in insurance and pension areas will find this book

of benefit.

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