

Drillship

Operates at water depths up to 12,000ft.
500-3650m



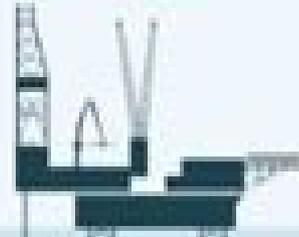
Semi-submersible

Operates at water depths up to 10,000ft.
500-3000m



Jack-Up Rig

Operates at water depths up to 500ft.
25-150m



Drilling Barge

Operates in shallow waters.
5-50m



Drilling Depth: 6000+ meters

Horizontal Drilling Maximum: 4000 meters

Drilling Depth: 9000+ meters

Drilling Depth: 10000+ meters

Drilling Depth: 12000+ meters

Offshore Structures

Guillaume Favre



Offshore Structures:

Offshore Structures Mohamed A. El-Reedy, 2012-08-21 With most of the easy gas and oil reserves discovered and prices rebounding companies are now drilling far offshore in extreme weather condition environments As deepwater wells are drilled to greater depths engineers and designers are confronted with new problems such as water depth weather conditions ocean currents equipment reliability and well accessibility Offshore Structure Design Construction and Maintenance covers all types of offshore structures and platforms employed worldwide The ultimate reference for selecting operating and maintaining offshore structures this book provides a road map for designing structures which will stand up even in the harshest environments The selection of the proper type of offshore structure is discussed from a technical and economic point of view The design procedure for the fixed offshore structure will be presented and how to review the design to reach the optimum solution Nonlinear analysis Push over analysis will be presented as a new technique to design and assess the existing structure Pile design and tubular joint with the effect of fatigue loading will be presented also from a theoretical and a practical point of view With this book in hand engineers receive the most up to date methods for performing a structural life cycle analysis implement maintenance plans for topsides and jackets using non destructive testing Under water inspection is discussed for hundreds of platforms in detail Advanced repair methodology for scour marine growth and damaged or deteriorating members are discussed Risk based under water inspection techniques are covered from a practical pint of view In addition the book will be supported by an online modeling and simulation program with will allow designers to save time and money by verifying assumptions online One stop guide to offshore structure design and analysis Easy to understand methods for structural life cycle analysis Expert advice for designing offshore platforms for all types of environments Save time and money by verifying designs online *Introduction to Offshore Structures* William J. Graff, 1981

Tubular Members in Offshore Structures Wai-Fah Chen, D. J. Han, 1985 *Features of Various Offshore Structures* Joseph Peraino, Burr L. Chase, Tomasz Plodowski, Lydon Amy, 1975 **Essentials of Offshore Structures** D.V. Reddy, A. S. J. Swamidas, 2016-04-19 *Essentials of Offshore Structures* Framed and Gravity Platforms examines the engineering ideas and offshore drilling platforms for exploration and production This book offers a clear and acceptable demonstration of both the theory and application of the relevant procedures of structural fluid and geotechnical mechanics to offshore structures It

Concrete Construction Engineering Handbook Edward G. Nawy, 2008-06-24 *The Concrete Construction Engineering Handbook* Second Edition provides in depth coverage of concrete construction engineering and technology It features state of the art discussions on what design engineers and constructors need to know about concrete focusing on The latest advances in engineered concrete materials Reinforced concrete construction Specialized construction techniques Design recommendations for high performance With the newly revised edition of this essential handbook designers constructors educators and field personnel will learn how to produce the best and most durably engineered constructed facilities

Hydrodynamics of Offshore Structures Subrata Kumar Chakrabarti, 1987 The subject of hydrodynamics applied to offshore structures is vast The topics covered in this book aim to help the reader understand basic principles while at the same time giving the designer enough information for particular designs Thus results are given with derivations and applications are discussed with the aid of examples with an overview of the advantages and limitations of the method involved This makes the book suitable as a text for undergraduate and graduate students specializing in offshore and ocean engineering

Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure Jaap Bakker, Dan M. Frangopol, Klaas van Breugel, 2016-11-18 This volume contains the papers presented at IALCCE2016 the fifth International Symposium on Life Cycle Civil Engineering IALCCE2016 to be held in Delft The Netherlands October 16 19 2016 It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R Khan lecture keynote lectures and technical papers from all over the world All major aspects of life cycle engineering are addressed with special focus on structural damage processes life cycle design inspection monitoring assessment maintenance and rehabilitation life cycle cost of structures and infrastructures life cycle performance of special structures and life cycle oriented computational tools The aim of the editors is to provide a valuable source for anyone interested in life cycle of civil infrastructure systems including students researchers and practitioners from all areas of engineering and industry

Offshore Fixed Structures Society for Underwater Technology. Offshore Structures Working Group, 1974

Earthquake Engineering Research Center Library Printed Catalog University of California, Berkeley. Earthquake Engineering Research Center. Library, 1975

Offshore Structures D. V. Reddy, 1991

Sea Loads on Ships and Offshore Structures O. Faltinsen, 1993-09-23 After introducing the theory of the structural loading on ships and offshore structures based on the motions of wind waves and currents this text demonstrates its applications to conventional and non conventional sea vessels including extensive exercises and examples

[Energy Research Abstracts](#), 1978

Dynamic Analysis and Design of Offshore Structures Srinivasan Chandrasekaran, 2015-02-13 This book attempts to provide readers with an overall idea of various types of offshore platform geometries It covers the various environmental loads encountered by these structures a detailed description of the fundamentals of structural dynamics in a class room style estimate of damping in offshore structures and their applications in the preliminary analysis and design Basic concepts of structural dynamics are emphasized through simple illustrative examples and exercises Design methodologies and guidelines which are FORM based concepts are explained through a few applied example structures Each chapter also has tutorials and exercises for self learning A dedicated chapter on stochastic dynamics will help the students to extend the basic concepts of structural dynamics to this advanced domain of research Hydrodynamic response of offshore structures with perforated members is one of the recent research applications which is found to be one of the effective manner of retrofitting offshore structures Results of recent research validated by the experimental and numerical studies are presented to update of the readers Integration of the

concepts of structural dynamics with the FORM evolved design of offshore structures is a unique approach used in this book. The book will prove useful to the practicing and consulting offshore structural engineers as also to students and researchers working in the field.

Ageing and Life Extension of Offshore Structures Gerhard Ersdal, John V. Sharp, Alexander Stacey, 2018-11-26. A comprehensive overview of managing and assessing safety and functionality of ageing offshore structures and pipelines. A significant proportion estimated at over 50% of the worldwide infrastructure of offshore structures and pipelines is in a life extension phase and is vulnerable to ageing processes. This book captures the central elements of the management of ageing offshore structures and pipelines in the life extension phase. The book gives an overview of the relevant ageing processes and hazards, how ageing processes are managed through the life cycle including an overview of structural integrity management, how an engineer should go about assessing a structure that is to be operated beyond its original design life and how ageing can be mitigated for safe and effective continued operation. Key Features: Provides an understanding of ageing processes and how these can be mitigated; Applies engineering methods to ensure that existing structures can be operated longer rather than decommissioned unduly prematurely; Helps engineers performing these tasks in both evaluating the existing structures and maintaining ageing structures in a safe manner. The book gives an updated summary of current practice and research on the topic of the management of ageing structures and pipelines in the life extension phase but also meets the needs of structural engineering students and practicing offshore and structural engineers in oil, gas and engineering companies. In addition, it should be of value to regulators of the offshore industry.

Nonlinear and Stochastic Dynamics of Compliant Offshore Structures Seon Mi Han, Haym Benaroya, 2013-04-17. The purpose of this monograph is to show how a compliant offshore structure in an ocean environment can be modeled in two and three dimensions. The monograph is divided into five parts. Chapter 1 provides the engineering motivation for this work that is offshore structures. These are very complex structures used for a variety of applications. It is possible to use beam models to initially study their dynamics. Chapter 2 is a review of variational methods and thus includes the topics principle of virtual work, D'Alembert's principle, Lagrange's equation, Hamilton's principle and the extended Hamilton's principle. These methods are used to derive the equations of motion throughout this monograph. Chapter 3 is a review of existing transverse beam models. They are the Euler-Bernoulli, Rayleigh shear and Timoshenko models. The equations of motion are derived and solved analytically using the extended Hamilton's principle as outlined in Chapter 2. For engineering purposes, the natural frequencies of the beam models are presented graphically as functions of normalized wave number and geometrical and physical parameters. Beam models are useful as representations of complex structures. In Chapter 4, a fluid force that is representative of those that act on offshore structures is formulated. The environmental load due to ocean current and random waves is obtained using Morison's equation. The random waves are formulated using the Pierson-Moskowitz spectrum with the Airy linear wave theory.

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c1986 **ERDA Energy Research Abstracts** ,1976 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1976 *Construction of Marine and Offshore Structures* Ben C. Gerwick Jr.,2007-03-05 For two decades Ben Gerwick s ability to capture the current state of practice and present it in a straightforward easily digestible manner has made *Construction of Marine and Offshore Structures* the reference of choice for modern civil and maritime construction engineers The third edition of this perennial bestseller continues to be the most mo

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