

DOWNLOAD PDF SPONS FABRICATION NORMS FOR OFFSHORE STRUCTURES

Chapter 1 : Products - Routledge

This unique handbook provides a detailed breakdown of the labour content of the fabrication of offshore structures and pre-assembled units. Compiled from data drawn from a wide range of projects by one of the leading consultancies in the offshore industry, the book will be an essential industrial reference.

Unique, cutting-edge material on structural dynamics and natural forces for offshore structures Using the latest advances in theory and practice, *Dynamics of Offshore Structures*, Second Edition is extensively revised to cover all aspects of the physical forces, structural modeling, and mathematical methods necessary to effectively analyze the dynamic behavior of offshore structures. Both closed-form solutions and the Mathematica r software package are used in many of the up-to-date example problems to compute the deterministic and stochastic structural responses for such offshore structures as buoys; moored ships; and fixed-bottom, cable-stayed, and gravity-type platforms. Throughout the book, consideration is given to the many assumptions involved in formulating a structural model and to the natural forces encountered in the offshore environment. These analyses focus on plane motions of elastic structures with linear and nonlinear restraints, as well as motions induced by the forces of currents, winds, earthquakes, and waves, including the latest theories and information on wave mechanics. Topics addressed include multidegree of freedom linear structures, continuous system analysis including the motion of cables and pipelines , submerged pile design, structural modal damping, fluid-structure-soil interactions, and single degree of freedom structural models that, together with plane wave loading theories, lead to deterministic or time history predictions of structural responses. These analyses are extended to statistical descriptions of both wave loading and structural motion. *Dynamics of Offshore Structures*, Second Edition is a valuable text for students in civil and mechanical engineering programs and an indispensable resource for structural, geotechnical, and construction engineers working with offshore projects. Subrata Kumar Chakrabarti Language: 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. Minoo H Patel Language: *Dynamics of Offshore Structures* provides an integrated treatment of the main subject areas that contribute to the design, construction, installation, and operation of fixed and floating offshore structures. The book begins with an overview of offshore oil and gas development and offshore structures. Separate chapters follow on the ocean environment; basic fluid mechanics; gravity wave theories; fluid loading on offshore structures; hydrostatics and dynamic response of floating bodies; and model testing of offshore structures. This book is prepared with particular emphasis on the fundamentals of oceanography, basic fluid mechanics, wave theory, hydrodynamics, naval architecture, and structural analysis to meet the needs of students reading ocean engineering or naval architecture, at both undergraduate and postgraduate levels. Basic equations and theoretical results are derived in a rigorous manner but sections on model testing, full-scale measurements, design, and certification are also included to ensure that the book is of value to professional engineers seeking a balanced treatment of fundamental and practical issues. The third edition of this perennial bestseller continues to be the most modern and authoritative guide in the field. Updated and expanded to reflect new technologies, methods, and materials, the book includes new information on topics such as liquefaction of loose sediments, scour and erosion, archaeological concerns, high-performance steel, ultra-high-performance concrete, steel H piles, and damage from sabotage and terrorism. It features coverage of LNG terminals and offshore wind and wave energy structures. Clearly, concisely, and accessibly, this book steers you away from the pitfalls and toward the successful implementation of principles that can bring your marine and offshore projects to life. Find Your eBooks Hereâ€¦

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