
API Recommended Practice 2A-WSD

Planning, Designing, and Constructing Fixed Offshore Platforms—Working Stress Design

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This recommended practice is based on global industry best practices and serves as a guide for those who are concerned with the design and construction of new fixed offshore platforms and for the relocation of existing platforms used for the drilling, development, production, and storage of hydrocarbons in offshore areas.

This publication serves as a guide for the design and construction of new platforms and for the relocation of existing platforms used for the drilling, development, and storage of hydrocarbons in offshore areas.

In addition, these guidelines shall be used in conjunction with API 2S4M for the assessment of existing platforms in the event that it becomes necessary to make a determination of the fitness-for-purpose of the structure.

Reference in this document is made to the 1989 edition of the AISC Specification for Structural Steel Buildings—Allowable Stress Design and Plastic Design. The use of later editions of AISC specifications is specifically not recommended for design of offshore platforms. The load and resistance factors in these specifications are based on calibration with building design practices and may not be applicable to offshore platforms. Research work is now in progress to incorporate the strength provisions of the new AISC code into API offshore design practices.

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Api Recommended Practice 2a Wsd

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Api Recommended Practice 2a Wsd:

API 2A-WSD : Recommended practice for planning, designing and constructing fixed offshore platforms-working stress design API.,2000 **Recommended Practice for Planning, Designing, and Constructing Fixed Offshore Platforms - Working Stress Design** American Petroleum Institute,2000 **Design of Foundations for Offshore Wind Turbines** Subhamoy Bhattacharya,2019-03-01 Comprehensive reference covering the design of foundations for offshore wind turbines As the demand for green energy increases the offshore wind power industry is expanding at a rapid pace around the world Design of Foundations for Offshore Wind Turbines is a comprehensive reference which covers the design of foundations for offshore wind turbines and includes examples and case studies It provides an overview of a wind farm and a wind turbine structure and examines the different types of loads on the offshore wind turbine structure Foundation design considerations and the necessary calculations are also covered The geotechnical site investigation and soil behavior soil structure interaction are discussed and the final chapter takes a case study of a wind turbine and demonstrates how to carry out step by step calculations Key features New important subject to the industry Includes calculations and case studies Accompanied by a website hosting software and data files Design of Foundations for Offshore Wind Turbines is a must have reference for engineers within the renewable energy industry and is also a useful guide for graduate students in this area *Frontiers in Offshore Geotechnics II* Susan Gourvenec,David White,2010-10-04 *Frontiers in Offshore Geotechnics II* comprises the Proceedings of the Second International Symposium on Frontiers in Offshore Geotechnics ISFOG organised by the Centre for Offshore Foundation Systems COFS and held at the University of Western Australia UWA Perth from 8 10 November 2010 The volume addresses current and emerging challenges Geotechnical and Geophysical Site Characterization 4 Roberto Quental Coutinho,Paul W. Mayne,2012-09-06 Site characterization is a fundamental step towards the proper design construction and long term performance of all types of geotechnical projects ranging from foundation excavation earth dams embankments seismic hazards environmental issues tunnels near and offshore structures Geotechnical and Geophysical Site Characterization 4 provides practical applications of novel and innovative technologies in geotechnical and geophysical engineering and is of interest to academics engineers and professionals involved in Geotechnical Engineering Federal Register ,2008-04 *Frontiers in Offshore Geotechnics* Susan Gourvenec,Mark Cassidy,2005-10-13 The present work contains 150 papers that were presented during ISEC 03 the 3rd International Conference on Structural and Construction Engineering that was held in Tokuyama College of Technology Shunan Japan from September 20 to 23 2005 The theme of the conference was Collaboration and Harmony of Creative Systems The conference was to encourage and assist the collaboration of any and all kinds of structural system and construction engineering using information technology in an environmentally friendly manner This book contains these challenging papers *Electrical Measuring Instruments and Measurements* S.C. Bhargava,2012-12-27 This book written for the benefit of

engineering students and practicing engineers alike is the culmination of the author's four decades of experience related to the subject of electrical measurements comprising nearly 30 years of experimental research and more than 15 years of teaching at several engineering institutions. The unique feature of this book apart from covering the syllabi of various universities is the style of presentation of all important aspects and features of electrical measurements with neatly and clearly drawn figures, diagrams, and colour and b/w photos that illustrate details of instruments among other things, making the text easy to follow and comprehend. Enhancing the chapters are interspersed explanatory comments and where necessary footnotes to help better understanding of the chapter contents. Also, each chapter begins with a recall to link the subject matter with the related science or phenomenon and fundamental background. The first few chapters of the book comprise Units, Dimensions, and Standards, Electricity, Magnetism, and Electromagnetism, and Network Analysis. These topics form the basics of electrical measurements and provide a better understanding of the main topics discussed in later chapters. The last two chapters represent valuable assets of the book and relate to a Magnetic Measurements describing many unique features not easily available elsewhere, a good study of which is essential for the design and development of most electric equipment from motors to transformers and alternators, and b Measurement of Non electrical Quantities dealing extensively with the measuring techniques of a number of variables that constitute an important requirement of engineering measurement practices. The book is supplemented by ten appendices covering various aspects dealing with the art and science of electrical measurement and of relevance to some of the topics in main chapters. Other useful features of the book include an elaborate chapter by chapter list of symbols, worked examples, exercises, and quiz questions at the end of each chapter, and extensive authors and subject index. This book will be of interest to all students taking courses in electrical measurements as a part of a B Tech in electrical engineering. Professionals in the field of electrical engineering will also find the book of use.

Proceedings - Offshore Technology Conference, 2001 **Handbook of Offshore Engineering** Subrata Kumar Chakrabarti, 2005. Each chapter is written by one or more invited world renowned experts. Information provided in handy reference tables and design charts. Numerous examples demonstrate how the theory outlined in the book is applied in the design of structures. Tremendous strides have been made in the last decades in the advancement of offshore exploration and production of minerals. This book fills the need for a practical reference work for the state of the art in offshore engineering. All the basic background material and its application in offshore engineering is covered. Particular emphasis is placed in the application of the theory to practical problems. It includes the practical aspects of the offshore structures with handy design guides, simple description of the various components of the offshore engineering and their functions. The primary purpose of the book is to provide the important practical aspects of offshore engineering without going into the nitty gritty of the actual detailed design. Provides all the important practical aspects of ocean engineering without going into the nitty gritty of actual design details. Simple to use with handy design guides, references, tables, and charts. Numerous examples demonstrate how

theory is applied in the design of structures Proceedings of the International Workshop on Wind and Earthquake Engineering for Offshore and Coastal Facilities ,1995 **Progress in Civil Engineering** Ming Jin Chu,Xiang Ran Li,Jing Zhou Lu,Xing Min Hou,Xiao Gang Wang,2012-05-14 Selected peer reviewed papers from the 2nd International Conference on Civil Engineering Architecture and Building Materials CEABM 2012 May 25 27 2012 Yantai China Conference Proceedings ,1999 Oceans '99 MTS/IEEE ,1999 **Offshore Site Investigation and Geotechnics** M. Cook,2002

The Structural Engineer ,1997 *A Probabilistic Screening Methodology for Use in Assessment and Requalification of Steel, Template-type Offshore Platforms* Mehrdad Mortazavi,1995 *Civil, Structural and Environmental Engineering III* Yong Huang,Tai Bao,Zhen Hua Huang,Hong Wang,2014-12-11 Selected peer reviewed papers from the 2014 3rd Global Conference on Civil Structural and Environmental Engineering GCCSEE 2014 October 21 22 2014 Chengdu China

Proceedings of the ... International Conference on Offshore Mechanics and Arctic Engineering ,2006

Proceedings of the 13th International Ship and Offshore Structures Congress Torgeir Moan,S. Berge,1997 The International Ship and Offshore Structures Congress ISSC is a forum for the exchange of information by experts undertaking and applying marine structural research The aim of the ISSC is to facilitate the evaluation and dissemination of results from recent investigations to make recommendations for standard design procedures and criteria to discuss research in progress and planned to identify areas requiring future research and to encourage international collaboration in furthering these aims Structures of interest to the ISSC include ships and other marine structures used for transportation exploration and exploitation of resources in and under the oceans The proceedings of the 13th ISSC Trondheim Norway August 1997 are organised in three volumes Vol 1 State of art reports from eight Technical Design Committees Environment Loads Quasi Static Response Dynamic Response Ultimate Strength Fatigue and Fracture Design Principles and Criteria Design Methods Vol 2 State of art reports from eight Specialist Panels Quality Assurance for Marine Structures Structural Design against Fire and Blast Structural Design of High Speed Vessels Structural Design against Collision and Grounding Structural Design against Ice Loads Structural Design of Floating Production Systems Structural Design of Pipeline Systems Fabrication Technology Vol 3 Discussion of each report by invited discussors and from the floor response from the committees

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