

Fatigue Handbook Offshore Steel Structures

Fatigue Handbook Petroleum and Marine Technology Information Guide Handbook of Bottom Founded Offshore Structures Offshore Information Guide ASM Handbook Tubular Structures Advances in Fatigue Science and Technology Fatigue Design of Marine Structures Steel in Marine Structures Metal Construction Spon's Fabrication Norms for Offshore Structures Advances in Understanding the Fatigue Behavior of Materials Petroleum Engineering Handbook Guide to Damage Tolerance Analysis of Marine Structures ASM Handbook Engineering Design in Welded Constructions Guide to Stability Design Criteria for Metal Structures POLARTECH '86 International Journal of Materials & Product Technology Marine Structural Reliability Symposium A. Almar-Naess J. Hutcheon Jan Hendrik Vugts Arnold Myers ASM International. Handbook Committee Paul Grundy C. Moura Branco Inge Lotsberg C. Noordhoek Franklin & Andrews Tirumalai S. Srivatsan Howard B. Bradley International Institute of Welding Theodore V. Galambos

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soon after oil and gas exploration and production began in the north sea in the 1960s it became apparent that the steel structure design developed for offshore activities in the gulf of mexico was not adequate when transferred to the rigorous north sea environment realizing the great need for a better understanding of the fatigue phenomenon concerned materials scientists at sintef and det norske veritas prepared a five year programme for intensified research on fatigue of offshore steel structures it became the national five year programme for fatigue of offshore steel structures in 1981 this text comprises a study of fatigue in offshore steel structures it seeks to make results in the area available in a form that can be utilized and understood by those responsible for the different stages in engineering design fabrication and service of offshore

structures

first published in 1981 as the offshore information guide this guide to information sources has been hailed internationally as an indispensable handbook for the oil gas and marine industries

this second part of the handbook deals with fixed steel offshore structures during their full life cycle from conceptual design via fabrication installation behaviour on location and structural integrity management to their eventual decommissioning and removal using the theoretical background discussed in part 1 the quasi static dynamic and fatigue behaviour in the open sea of framed structures and monotowers are analysed by illustrative practical applications that promote insight and understanding foundations are an inseparable part of bottom founded structures in respect of their design and installation as well as their mechanical behaviour on location a comprehensive chapter in part 2 is devoted to foundation engineering issues self elevating platforms jack ups are mobile structures that are floating when they are in transit bottom founded when they are operating on location and in transition between these two situations during placement and departure this part also includes an informative chapter on this special type of structure

these volumes cover the properties processing and applications of metals and nonmetallic engineering materials they are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria

tubular structures remain a source of architectural inspiration and practical solutions to difficult performance specifications new developments are covered in this text which contains papers on design innovations and applications presented at an international symposium held in australia in 1994

this volume contains the edited version of lectures and selected research contributions presented at the nato advanced study institute on advances in fatigue science and technology held in alvor portugal 4th to 15th of april 1988 and organized by cemul center of mechanics and materials of the technical university of lisbon the institute was attended by 101 participants including 15 lecturers from 14 countries the participants were leading scientists and engineers from universities research institutions and industry and also ph d students some participants presented papers during the institute reporting the state of art of their research projects all the sessions were very active and quite extensive discussions on scientific aspects took place during the institute the advanced study institute provided a forum for interaction among eminent scientists and engineers from different schools of thought and young researchers the institute addressed the foundations and current state of the art of essential aspects related to fatigue science and technology namely short cracks metallurgical aspects environmental fatigue threshold

behaviour notch behaviour creep and fatigue interactions at high temperature multiaxial fatigue low cycle fatigue methodology of fatigue testing variable amplitude fatigue fatigue of advanced materials elastic plastic fatigue and several engineering applications such as welded joints energy systems offshore structures automotive industry machine and engine components this book is organized in three parts part i fundamentals of fatigue part ii engineering applications part iii research contributions the research contributions covered most of the areas referred above

this is a theoretical and practical guide for fatigue design of marine structures including sailing ships and offshore oil structures

this volume contains the results of the third phase 1981 1987 of a research programme on the in service behaviour of welded marine structures under fatigue and corrosion fatigue loading the programme was undertaken in six eec countries denmark france germany italy the netherlands united kingdom in close association with similar work being undertaken in norway and canada in all more than 40 research laboratories have been involved in an overall collaboration aimed at generating information relevant to the performance of offshore steel structures and fostering a precise degree of common technical understanding that will encourage the increased use of structural steel fabrications for the exploitation of offshore hydrocarbon reserves throughout the world the programme has already produced tangible benefits for both the steel and oil industries through the contribution it has made to a better understanding of the behaviour of steel structures in marine environments as well as by providing the data necessary for the revision of codes of practice relating to the fabrication of these structures

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

special topic volume with invited papers only

this volume contains the complete proceedings of the international conference on engineering design in welded constructions part of the 45th annual assembly of the international institute of welding held in madrid spain 5 12 september 1992 coverage ranges from the rules for engineering design to financial considerations and performance of welded structures the book provides a valuable account of recent advances in the understanding of welding design and performance for structural and mechanical engineers using welding in the construction or repair of structures and machines

this guide compiled and updated by the structural stability research council has long been an indispensable bridge between research and

practice provides simplified and refined procedures applicable to design and to assessing design limitations and offers guidance to design specifications codes and standards currently applied to the stability of metal structures most chapters have been rewritten and three new chapters cover stability theory box girders and the application of the finite element method to the solution of stability problems illustrated with over 250 figures

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