

Proceedings of the 20th International Ship and Offshore Structures Congress

Technical Committee Reports



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**Proceedings Of The International Conference On
Behaviour Of Offshore Structures Boss 97 Structures
Vol 3**

**Alaa Mansour,Hideomi Ohtsubo,Y.
Sumi,Cengiz Ertekin**



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BOSS '97: Structures J. H. Vugts, 1997 **Soil Dynamics and Foundation Modeling** Junbo Jia, 2017-11-26 This book presents a comprehensive topical overview on soil dynamics and foundation modeling in offshore and earthquake engineering The spectrum of topics include but is not limited to soil behavior soil dynamics earthquake site response analysis soil liquefactions as well as the modeling and assessment of shallow and deep foundations The author provides the reader with both theory and practical applications and thoroughly links the methodological approaches with engineering applications The book also contains cutting edge developments in offshore foundation engineering such as anchor piles suction piles pile torsion modeling soil ageing effects and scour estimation The target audience primarily comprises research experts and practitioners in the field of offshore engineering but the book may also be beneficial for graduate students

Modern Earthquake Engineering Junbo Jia, 2016-10-01 This book addresses applications of earthquake engineering for both offshore and land based structures It is self contained as a reference work and covers a wide range of topics including topics related to engineering seismology geotechnical earthquake engineering structural engineering as well as special contents dedicated to design philosophy determination of ground motions shock waves tsunamis earthquake damage seismic response of offshore and arctic structures spatial varied ground motions simplified and advanced seismic analysis methods sudden subsidence of offshore platforms tank liquid impacts during earthquakes seismic resistance of non structural elements and various types of mitigation measures etc The target readership includes professionals in offshore and civil engineering officials and regulators as well as researchers and students in this field *Marine Geotechnology and*

Nearshore/offshore Structures Ronald C. Chaney, Hsai-Yang Fang, 1986 *Foundations of concrete gravity structures in the North Sea* FIB - International Federation for Structural Concrete, 1979-08-01 *Practical Design of Ships and Other Floating Structures* You-Sheng Wu, Guo-Jun Zhou, Wei-Cheng Cui, 2001-08-22 This proceedings contains the papers presented at The 8th International Symposium on Practical Design of Ships and Other Floating Structures held in China in September 2001 the first PRADS of the 21st Century The overall aim of PRADS symposia is to advance the design of ships and other floating structures as a professional discipline and science by exchanging knowledge and promoting discussion of relevant topics in the fields of naval architecture and marine and offshore engineering In line with the aim in welcoming the new era this Symposium is intended to increase international co operation and give a momentum for the new development of design and production technology of ships and other floating structures for efficiency economy safety and environmental production The main themes of this Symposium are Design Synthesis Production Hydrodynamics Structures and Materials of Ships and Floating Systems Proposals for over 270 papers from 26 countries and regions within the themes were received for PRADS 2001 and about 170 papers were accepted for presentation at the symposium With the high quality of the proposed papers the Local Organising Committee had a difficult task to make a balanced selection and to control the total number of papers

for fitting into the allocated time schedule approved by the Standing Committee of PRADS Volume I covers design synthesis production and part of hydrodynamics Volume II contains the rest of hydrodynamics and structures and materials

Load and Global Response of Ships J.J Jensen,2001-08-08 Load and Global Response of Ships gives an introductory background to naval architecture statistics and strength of materials Each subject is treated in detail starting from the first principle The aim of this title was to derive and present the necessary theoretical framework for predicting the extreme loads and the corresponding hull girder stresses that a ship may be subjected to during its operational lifetime Although some account is given to reliability analysis the present treatment has to be supplemented with methods for detailed stress evaluation and for structural strength assessment before a complete structural reliability analysis can be carried out The classification societies have issued rules and regulations for a proper structural analysis of a ship and selection of the scantlings Previously those rules rather explicitly gave formulae for the thickness of the hull platings the size of the stiffeners etc Such empirical rules must necessarily be rather conservative in order to apply to a large variety of ships With the advent of powerful computers the rules have changed Today the naval architect can perform the structural analysis using mainly rational methods based on first principles The classification society may then specify proper safety factors against local global failure modes taking into account the consequences of failure and the analysis procedure used A cruder method of analysis then necessitates a larger safety factor Therefore the effort made by the experienced naval architect to perform a detailed structural analysis will be returned not just by a rational structural arrangement but also often in lower weight of the ship and thus a higher payload throughout the operational lifetime of the ship This analysis has attempted to make explicit one way in which designers limit the design space by creating rules to which they expect users to adhere It is also an attempt to encourage designers to reconsider the rules of use that they have used in their designs so as to reconceptualise potential usage This can help design behaviour where rule use is not blindly followed By making these rules visible it is possible to expose the limitations of current technology and development design solutions that do not restrict use to the normal case of action Rules are useful to designers because they are simplifications of activity Rules encode the normal case and these are simplistic representations of work that are in many cases accurate enough for the purpose of design However encoding behaviour in rules has dangers in that they do not encompass the whole range of behaviours that can be performed Using examples this title shows that being able to break rules means that people are able to engage in a richer more flexible set of actions and therefore more appropriate to contingency than when they are constrained to a limited range

Pipelines and Risers Yong Bai,2001-02-07 Pipelines and Risers BOSS '97 J. H. Vugts,1997 **BOSS '97: Invited Papers, Geotechnics, Miscellaneous - v. 2. Hydrodynamics** J. H. Vugts,1997 *Contemporary Ideas on Ship Stability* D. Vassalos,M. Hamamoto,D. Molyneux,A. Papanikolaou,2000-12-14 Widely publicised disasters serve as a reminder to the maritime profession of the eminent need for enhancing safety cost effectively and as a strong indicator of the existing gaps in the

stability safety of ships and ocean vehicles The problem of ship stability is so complex that practically meaningful solutions are feasible only through close international collaboration and concerted efforts by the maritime community deriving from sound scientific approaches Responding to this and building on an established track record of co operative research between UK and Japan a Collaborative Research Project CRP was launched in 1995 This volume includes selected material from the first four workshops 1st in University of Strathclyde July 1995 organized by Professor Vassalos 2nd in Osaka Japan Osaka University November 1996 organized by Professor Masami Hamamoto 3rd in Crete Greece Ship Design Laboratory of the National Technical University of Athens NTUA SDL October 1997 organized by Professor Apostolos Papanikolaou and 4th in Newfoundland Canada Institute for Marine Dynamics September 1998 organized by David Molyneux It contains 46 papers that represent all currently available expertise on ship stability spanning 17 countries from around the world The framework adopted for grouping the papers aims to cover broad areas of ship stability in a way that it provides a template for future volumes *Proceedings of the 13th International Ship and Offshore Structures Congress* Torgeir Moan, S. Berge, 1999

Proceedings of the 14th International Ship and Offshore Structures Congress Hideomi Ohtsubo, Y. Sumi, 2000

ISSC 2003 14th International Ship and Offshore Structures Congress Alaa Mansour, Hideomi Ohtsubo, Y. Sumi, Cengiz Ertekin, 2000 These 3 volumes contain the eight Technical Committee reports six Specialist Committee and 2 Special Task Committee reports which were presented for the 14th International Ship and Offshore Structures Congress ISSC 2000 in Nagasaki Japan between 2nd and 6th October 2000 Volume III will be published in 2001 and is to contain the discussion of the above subjects **Offshore Structures** D. V. Reddy, 1991 *Wind Generated Ocean Waves* I.R. Young, 1999-03-23 The goals of wind wave research are relatively well defined to be able to predict the wind wave field and its effect on the environment That environment could be natural beaches the atmosphere etc or imposed by human endeavour ports harbours coastal settlements etc Although the goals are similar the specific requirements of these various fields differ considerably This book attempts to summarise the current state of this knowledge and to place this understanding into a common frame work It attempts to take a balanced approach between the pragmatic engineering view of requiring a short term result and the scientific quest for detailed understanding Thus it attempts to provide a rigorous description of the physical processes involved as well as practical predictive tools *Subject Guide to Books in Print*, 1991 [The Proceedings of the Eighth](#)

(1998) [International Offshore and Polar Engineering Conference](#) Jin S. Chung, 1998

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Offshore Site Investigation and

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