

Subsea Engineering Handbook

Yong Bai
Qiang Bai

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Subsea Engineering Handbook

**Petrogav International Oil & Gas
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Subsea Engineering Handbook:

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Assessment and Management for Ships and Offshore Structures Yong Bai, Jeom Kee Paik, 2024-04-04 The volatile uncertain complex and ambiguous VUCA nature of environmental and operational conditions is still the major cause of marine accidents with knock on effects in terms of casualties property damage and marine pollution Recognized as the most effective approach to navigate VUCA environments risk based assessment methods provide a solution to address challenges associated with health safety and environmental protection in extreme conditions and when accidents involving engineering structures and infrastructure occur This book serves as a comprehensive guide to the foundational principles current practices and cuttingedge trends in quantitative risk assessment and management for ships and offshore structures With six parts encompassing a total of 35 chapters it covers risk assessment and management for offshore installations oil and gas leaks collisions and grounding and fires and explosions Tailored for ship and offshore structural engineers naval architects as well as mechanical and civil engineers involved in advanced safety studies this book is an invaluable resource for both practicing engineers and researchers in this field Offers insights into quantitative risk assessment and asset management for ships and offshore structures in extreme conditions and in the event of accidents Equips engineers with valuable statistical data sets and enhances data assimilation techniques for precise hazard frequency calculations Seamlessly integrates fundamental principles with practical applications addressing emerging challenges and leveraging the latest technological advances in the field

9th WCEAM Research Papers Joe Amadi-Echendu, Chagela Hoohlo, Joe Mathew, 2015-03-18 Engineering asset management encompasses all types of engineered assets including built environment infrastructure plant equipment hardware systems and components Following the release of ISO 5500x set of standards the 9th WCEAM addresses the hugely important issue of what constitutes the body of knowledge in Engineering Asset Management Topics discussed by Congress delegates are grouped into a number of tracks including strategies for investment and divestment of assets operations and maintenance of assets assessments of assets condition risk and vulnerability technologies and systems for management of asset standards education training and certification These proceedings include a sample of the wide range of topics presented during the 9th World Congress on Engineering Asset Management in Pretoria South Africa 28 31 October 2014 and complements other emerging publications and standards that embrace the wide ranging issues concerning the management of engineered physical assets

Structural Dynamics Yong Bai, 2019-07-11 Written by two experts across multiple disciplines this is the perfect reference on structural dynamics for veteran engineers and introduction to the field for engineering students Across many disciplines of engineering dynamic problems of structures are a primary concern Civil engineers mechanical engineers aircraft engineers ocean engineers and engineering students encounter these problems every day and it is up to them systematically to grasp the basic concepts calculation principles and calculation methods of structural dynamics This book focuses on the basic theories and concepts as well as the application and background of theories and concepts in engineering Since the basic principles and methods of dynamics are applied to other various

engineering fields this book can also be used as a reference for practicing engineers in the field across many multiple disciplines and for undergraduate and graduate students in other majors as well The main contents include basic theory of dynamics establishment of equation of motion single degree of freedom systems multi degree of freedom systems distributed parameter systems stochastic structural vibrations research projects of structural dynamics and structural dynamics of marine pipeline and risers Whether for the veteran engineer or student this is a must have for any scientific or engineering library Useful for students and veteran engineers and scientists alike this is the only book covering these important issues facing anyone working with coastal models and ocean coastal and civil engineering in this area The Offshore Pipeline Construction Industry M.J. Kaiser,2020-04-08 The Offshore Pipeline Construction Industry Activity Modeling and Cost Estimation in the United States Gulf of Mexico presents the latest technical concepts and economic calculations helping engineers make better business decisions The book covers flow assurance development strategies on pipeline requirements and the construction service side with a global perspective In addition it focuses on one of the most underdeveloped promising assets the Gulf of Mexico Pipeline construction and decommissioning estimation methods are examined with reliable data presented A final section covers trends for oil gas bulk oil bulk gas service and umbilical pipelines for installation and decommissioning using correlation models This book delivers a much needed tool for the pipeline engineer to better understand the economical choices and alternatives to designing constructing and operating today s offshore pipelines Built with construction and decommissioning decision tools supported by reliable data and case studies Organized by parts including a section devoted to Gulf of Mexico statistics and estimation methods Helps readers gain practical knowledge on strategies and cost models from a global pipeline perspective including environmental and mitigation considerations

Offshore Electrical Engineering Manual Geoff MacAngus-Gerrard,2017-11-06 Offshore Electrical Engineering Manual Second Edition is for electrical engineers working on offshore projects who require detailed knowledge of an array of equipment and power distribution systems The book begins with coverage of different types of insulation hot spot temperatures temperature rise ambient air temperatures basis of machine ratings method of measurement of temperature rise by resistance measurement of ambient air temperature This is followed by coverage of AC generators automatic voltage regulators AC switchgear transformers and programmable electronic systems The emphasis throughout is on practical ready to apply techniques that yield immediate and cost effective benefits The majority of the systems covered in the book operate at a nominal voltage of 24 y dc and although it is not necessary for each of the systems to have separate battery and battery charger systems the grouping criteria require more detailed discussion The book also provides information on equipment such as dual chargers and batteries for certain vital systems switchgear tripping closing and engine start batteries which are dedicated to the equipment they supply In the case of engines which drive fire pumps duplicate charges and batteries are also required Packed with charts tables and diagrams this work is intended to be of interest to both technical readers and to

general readers It covers electrical engineering in offshore situations with much of the information gained in the North Sea Some topics covered are offshore power requirements generator selection process drivers and starting requirements control and monitoring systems and cabling and equipment installation Discusses how to perform inspections of electrical and instrument systems on equipment using appropriate regulations and specifications Explains how to ensure electrical systems components are maintained and production is uninterrupted Demonstrates how to repair modify and install electrical instruments ensuring compliance with current regulations and specifications Covers specification management and technical evaluation of offshore electrical system design Features evaluation and optimization of electrical system options including DC AC selection and offshore cabling designs

Engineering Challenges for Sustainable Future Noor Amila Wan Abdullah Zawawi,2016-12-01 Engineering Challenges for Sustainable Future contains the papers presented at the 3rd International Conference on Civil Offshore Environmental Engineering ICCOEE2016 Kuala Lumpur Malaysia 15 17 August 2016 under the banner of World Engineering Science Technology Congress ESTCON2016 The ICCOEE series of conferences started in Kuala Lumpur Malaysia 2012 and the second event of the series took place in Kuala Lumpur Malaysia 2014 This conference series deals with the civil offshore environmental engineering field addressing the following topics Environmental and Water Resources Engineering Coastal and Offshore Engineering Structures and Materials Construction and Project Management Highway Geotechnical and Transportation Engineering and Geo informatics This book is an essential reading for academic engineers and all professionals involved in the area of civil offshore and environmental engineering

100 technical questions and answers for job interview Offshore Drilling Rigs Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS 230 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

Bayesian Networks In Fault Diagnosis: Practice And Application Baoping Cai,Yonghong Liu,Jinqiu Hu,Zengkai Liu,Shengnan Wu,Renjie Ji,2018-08-24 Fault diagnosis is useful for technicians to detect isolate identify faults and troubleshoot Bayesian network BN is a probabilistic graphical model that effectively deals with various uncertainty problems This model is increasingly utilized in fault diagnosis This unique compendium presents bibliographical review on the use of BNs in fault diagnosis in the last decades with focus on engineering systems Subsequently eleven important issues in BN based fault diagnosis methodology such as BN structure modeling BN parameter modeling BN inference fault identification validation and verification are discussed in various cases Researchers professionals academics and graduate students will better understand the theory and

application and benefit those who are keen to develop real BN based fault diagnosis system *Bayesian Networks for Reliability Engineering* Baoping Cai, Yonghong Liu, Zengkai Liu, Yuanjiang Chang, Lei Jiang, 2019-02-28 This book presents a bibliographical review of the use of Bayesian networks in reliability over the last decade Bayesian network BN is considered to be one of the most powerful models in probabilistic knowledge representation and inference and it is increasingly used in the field of reliability After focusing on the engineering systems the book subsequently discusses twelve important issues in the BN based reliability methodologies such as BN structure modeling BN parameter modeling BN inference validation and verification As such it is a valuable resource for researchers and practitioners in the field of reliability engineering

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book is aimed at professionals and researchers in petroleum engineering offshore technology subsea engineering and
Explores the engineering technology system environmental operational and legislation aspects of offshore productions
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producing nations pertaining to offshore operations oil and gas Incorporates case studies of major offshore operations oil and
gas accidents and lessons learnt Discusses environment impact of offshore operations Practical Aspects of Flow
Assurance in the Petroleum Industry Jitendra Sangwai, Abhijit Dandekar, 2022-07-07 With easily accessible oil reserves
dwindling petroleum engineers must have a sound understanding of how to access technically challenging resources
especially in the deepwater environment These technically challenging resources bring with them complexities around fluid
flow not normally associated with conventional production systems and engineers must be knowledgeable about navigating
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topics placing equal emphasis on experimental techniques and modeling methods and devoting an entire chapter to the
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