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Knowledge Graphs Aidan Hogan 2021-11-08 This book provides a comprehensive and accessible introduction to knowledge graphs, which have recently garnered notable attention from both industry and academia. Knowledge graphs are founded on the principle of applying a graph-based abstraction to data, and are now broadly deployed in scenarios that require integrating and extracting value from multiple, diverse sources of data at large scale. The book defines knowledge graphs and provides a high-level overview of how they are used. It presents and contrasts popular graph models that are commonly used to represent data as graphs, and the languages by which they can be queried before describing how the resulting data graph can be enhanced with notions of schema, identity, and context. The book discusses how ontologies and rules can be used to encode knowledge as well as how inductive techniques—based on statistics, graph analytics, machine learning, etc.—can be used to encode and extract knowledge. It covers techniques for the creation, enrichment, assessment, and refinement of knowledge graphs and surveys recent open and enterprise knowledge graphs and the industries or applications within which they have been most widely adopted. The book closes by discussing the current limitations and future directions along which knowledge graphs are likely to evolve. This book is aimed at students, researchers, and practitioners who wish to learn more about knowledge graphs and how they facilitate extracting value from diverse data at large scale. To make the book accessible for newcomers, running examples and graphical notation are used throughout. Formal definitions and extensive references are also provided for those who opt to delve more deeply into specific topics.

Ship-Shaped Offshore Installations Jeom Kee Paik 2007-01-15 Ship-shaped offshore units are some of the more economical systems for the development of offshore oil and gas, and are often preferred in marginal fields. These systems are especially attractive to develop oil and gas fields in deep and ultra-deep water areas and remote locations away from existing pipeline infrastructures. Recently, the ship-shaped offshore units have been applied to near shore oil and gas terminals. This 2007 text is an ideal reference on the technologies for design, building and operation of ship-shaped offshore units, within inevitable space requirements. The book includes a range of topics, from the initial contracting strategy to decommissioning and the removal of the units concerned. Coverage includes both fundamental theory and principles of the individual technologies. This book will be useful to students who will be approaching the subject for the first time as well as designers working on the engineering for ship-shaped offshore installations.

Handbook of Offshore Engineering Subrata Kumar Chakrabarti 2005

Design Aids for Offshore Topside Platforms Under Special Loads Srinivasan Chandrasekaran

2021-11-29 Offshore platforms face many risks, including a hostile ocean environment, extreme temperatures, overpressure loads, fire risks, and hydrocarbon explosions, all of which pose unique challenges in designing their topside platforms. The topside design also involves the selection of appropriate materials to reduce fire risk without compromising the functional requirements. These platforms serve valuable, utility, production, and processing purposes, and can also provide living quarters for personnel. Concepts such as basic design, special design, materials selection, and risk hazards are explained in the authors' straightforward classroom style, and are based on their rich experience in both academia and industry. Features □ Includes practical examples which are solved using international codes to offer a better understanding of the subjects presented □ Addresses safety and risk of offshore platforms, and considers numerous topside accident scenarios □ Discusses the structural and mechanical properties of various materials, such as steel and newer functionally graded materials (FGMs) Design Aids for Offshore Topside Platforms Under Special Loads serves as a design manual for multi-disciplinary engineering graduates and practicing professionals working in civil, mechanical, offshore, naval, and petroleum engineering fields. In addition, the book will serve as reference manual for practicing design engineers and risk assessors.

Publikasjon - Norges Geotekniske Institutt Norges geotekniske institutt 1997 Includes the institute's report, 1953-

Fatigue Design of Marine Structures Inge Lotsberg 2016-04-22 This is a theoretical and practical guide for fatigue design of marine structures including sailing ships and offshore oil structures.

Canadian Geotechnical Journal 2008

Mechanical Behaviour of Soils Under Environmentally-Induced Cyclic Loads Claudio Giulio di Prisco 2012-03-02 T. Wichtmann, T. Triantafyllidis: Behaviour of granular soils under environmentally induced cyclic loads. - D. Muir Wood: Constitutive modelling. - C. di Prisco: Creep versus transient loading effects in geotechnical problems. - M. Pastor et al.: Mathematical models for transient, dynamic and cyclic problems in geotechnical engineering. - M. Pastor: Discretization techniques for transient, dynamics and cyclic problems in geotechnical engineering: first order hyperbolic partial differential equations. - M. Pastor et l.: Discretization techniques for transient, dynamic and cyclic problems in geotechnical engineering: second order equation. - C. di Prisco: Cyclic mechanical response of rigid bodies interacting with sand strata. - D. Muir Wood: Macroelement modelling. - M. F. Randolph: Offshore design approaches and model tests for sub-failure cyclic loading of foundations. - M.F. Randolph: Cyclic interface shearing in sand and cemented soils and application to axial response of piles. - M. F. Randolph: Evaluation of the remoulded shear strength of offshore clays and application to pipeline-soil and riser-soil interaction. The book gives a comprehensive description of the mechanical response of soils (granular and cohesive materials) under cyclic loading. It provides the geotechnical engineer with the theoretical and analytical tools necessary for the evaluation of settlements developing with time under cyclic, environmentally induced loads (such as wave motion, wind actions, water table level variation) and their consequences for the serviceability and durability of structures such as the shallow or deep foundations used in offshore engineering, caisson breakwaters, ballast and airport pavements and also to interpret monitoring data, obtained from both natural and artificial slopes and earth embankments, for the purposes of risk assessment and mitigation.

Parentology Dalton Conley 2014-03-18 An award-winning scientist offers his unorthodox approach to childrearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom" bound to change your thinking about parenting and its conventions" (Amy Chua, author of *Battle Hymn of the Tiger Mother*). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In *Parentology*, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession. *Parentology* teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same time.

Handbook of Bottom Founded Offshore Structures Jan H. Vugts 2013-12-01 Offshore Engineering continues to develop and expand rapidly. While in the public eye its focus has shifted towards subsea and floating developments in ever deeper waters, bottom founded structures are still at the industry's heart. The fixed structure remains its dependable workhorse and even today newly installed fixed structures far outnumber subsea and floating applications. Additionally, the knowledge and technology that have (literally) pushed the boundaries of Offshore Engineering into ever more demanding environments and water depths have been largely pioneered by bottom founded structures. An engineer's central skill is to develop coherent and balanced models for the problems encountered. Regrettably, due to availability of ever more sophisticated computer applications this expertise is at risk of getting lost, and adopting computer outcomes without truly understanding the models and their limitations is naive, risky and unprofessional. Therefore, every engineer needs fundamental knowledge and understanding of underlying theories and technologies. This Handbook is intended to help offshore engineers acquire and sustain relevant expertise in some notoriously difficult subjects. It attempts to stimulate reflection and critical evaluation of the models used and the strengths and weaknesses of the solutions found. While dealing more specifically with bottom founded structures, the material is generally applicable to offshore structures of all types. The Handbook can be used as a textbook for Master's students and as a manual and reference guide for practising professionals.

Analysis of Images, Social Networks and Texts Wil M. P. van der Aalst 2020-02-01 This book constitutes the proceedings of the 8th International Conference on Analysis of Images, Social Networks and Texts, AIST 2019, held in Kazan, Russia, in July 2019. The 24 full papers and 10 short papers were carefully reviewed and selected from 134 submissions (of which 21 papers were rejected without being reviewed). The papers are organized in topical sections on general topics of data analysis; natural language processing; social network analysis; analysis of images and video; optimization problems on graphs and network structures; analysis of dynamic behaviour through event data.

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

2006

The Coastal Resources of Brunei Darussalam Geronimo Silvestre 1992

Advances in Deep Foundations Yoshiaki Kikuchi 2007-06-21 Civil Engineering has recently seen enormous progress in the core field of the construction of deep foundations. This book is the result of the International Workshop on Recent Advances in Deep Foundations (IWDPF07), which was held in Yokosuka, Japan from the 1st to the 2nd of February, 2007. Topics under discussion in this book include recent rese

Deep Foundations 2002 Michael W. O'Neill 2002 Proceedings of the International Deep Foundations Congress 2002, held in Orlando, Florida, February 14-16, 2002. Sponsored by The Geo-Institute of ASCE. This Geotechnical Special Publication contains 110 papers documenting applied research and engineering experience in the area of deep foundations. The volume is a comprehensive resource for both researchers and practitioners covering driven, jacked, and augered piles and drilled shafts. Topics include: geotechnical design, structural design, innovative construction, validation and verification of design and construction, soil-structure interaction, reliability-based design, field load testing for design, concepts for deep foundation systems (such as piled rafts), numerical and analytical modeling of pile foundations, design of foundations for extreme events, and numerous and varied case histories. Several papers also focus on the acquisition and use of geomaterial properties for deep foundation design and the use of deep foundations in walls.

Environmental Load Factors and System Strength Evaluation of Offshore Jacket Platforms Zafarullah Nizamani 2015-01-27 This book presents a study for the determination of environmental load factors for Jacket Platforms in Malaysia and a methodology to determine the life extension of aging platforms. The simplified methods described here could be used for determining not only structural reliability but also safety factors. Its content is particularly interesting to design and maintenance engineers who are working in offshore or onshore industry.

Designing Web APIs Brenda Jin 2018-08-29 Using a web API to provide services to application developers is one of the more satisfying endeavors that software engineers undertake. But building a popular API with a thriving developer ecosystem is also one of the most challenging. With this practical guide, developers, architects, and tech leads will learn how to navigate complex decisions for designing, scaling, marketing, and evolving interoperable APIs. Authors Brenda Jin, Saurabh Sahni, and Amir Shevat explain API design theory and provide hands-on exercises for building your web API and managing its operation in production. You'll also learn how to build and maintain a following of app developers. This book includes expert advice, worksheets, checklists, and case studies from companies including Slack, Stripe, Facebook, Microsoft, Cloudinary, Oracle, and GitHub. Get an overview of request-response and event-driven API design paradigms Learn best practices for designing an API that meets the needs of your users Use a template to create an API design process Scale your web API to support a growing number of API calls and use cases Regularly adapt the API to reflect changes to your product or business Provide developer resources that include API documentation, samples, and tools

Proceedings of the 1st Vietnam Symposium on Advances in Offshore Engineering M.F.

Randolph 2018-09-24 These proceedings gather a selection of refereed papers presented at the 1st Vietnam Symposium on Advances in Offshore Engineering (VSOE 2018), held on 1-3 November 2018 in Hanoi, Vietnam. The contributions from researchers, practitioners, policymakers, and entrepreneurs address technological and policy changes intended to

promote renewable energies, and to generate business opportunities in oil and gas and offshore renewable energy. With a special focus on energy and geotechnics, the book brings together the latest lessons learned in offshore engineering, technological innovations, cost-effective and safer foundations and structural solutions, environmental protection, hazards, vulnerability, and risk management. The book offers a valuable resource for all graduate students, researchers and industrial practitioners working in the fields of offshore engineering and renewable energies.

Charnolophagy in Health and Disease Sushil Sharma 2021-09-03 This book introduces charnolophagy (CP) as energy-driven, lysosomal-dependent mitochondrial inclusion-specific pleomorphic Charnoly body (CB) autophagy (ATG) involving free radical-induced Ca^{2+} dyshomeostasis, Ca^{2+} collapse, and ATP depletion in congenital diseases, pressure ulcers, metabolic diseases, hepatic diseases, diabetes, obesity, inflammatory diseases, musculoskeletal diseases, sarcopenia, cachexia, respiratory diseases, gastrointestinal diseases, hyperlipidemia, skin and hair diseases, pulmonary diseases, cardiovascular diseases, renal diseases, sepsis-induced multi-organ failure, reproductive diseases, inflammatory diseases, ophthalmic diseases, neurodegenerative diseases, drug addiction, aging, microbial (including COVID-19) infections, and belligerent malignancies implicated in early morbidity and mortality and disease-specific spatiotemporal, targeted, safe, and effective evidence-based personalized theranostic charnolopharmacotherapeutics to cure them. Basic DRESS and GELS principles, nanoparticles to cure chronic multidrug-resistant (MDR) diseases, antioxidants as free radical scavengers, CB antagonists, CP regulators, and CS stabilizers to curb CB molecular pathogenesis (CBMP) are described for better quality of life and longevity. Specific guidelines for environmental protection and preservation of zoological and botanical species at the verge of extinction, Triple "I" Hypothesis for mitochondrial quality control, and transcriptional regulation of CSexR and CSendoR to cure chronic diseases are presented. Novel CP index is introduced to evaluate MDR malignancies and other chronic diseases. WHO, CDC, FDA, NIH, policy planners, cosmetologists, trichologists, players, athletes, dancers, wrestlers, equestrians, young women, aging population, toxicologists, environmental protectionists, pharmaceutical industry, biomedical scientists, researchers, medical students, physicians, nurses, paramedical professionals, and global audience will be interested in this interesting book to prevent pandemics and raise healthcare awareness.

Wind Energy Engineering Trevor M. Letcher 2017-05-11 Wind Energy Engineering: A Handbook for Onshore and Offshore Wind Turbines is the most advanced, up-to-date and research-focused text on all aspects of wind energy engineering. Wind energy is pivotal in global electricity generation and for achieving future essential energy demands and targets. In this fast moving field this must-have edition starts with an in-depth look at the present state of wind integration and distribution worldwide, and continues with a high-level assessment of the advances in turbine technology and how the investment, planning, and economic infrastructure can support those innovations. Each chapter includes a research overview with a detailed analysis and new case studies looking at how recent research developments can be applied. Written by some of the most forward-thinking professionals in the field and giving a complete examination of one of the most promising and efficient sources of renewable energy, this book is an invaluable reference into this cross-disciplinary field for engineers. Contains analysis of the latest high-level research and explores real world application potential in relation to the developments Uses system international (SI) units and imperial units throughout to appeal to global engineers Offers new case studies from a world expert in the field Covers the latest

research developments in this fast moving, vital subject

Subsea Pipelines and Risers Yong Bai 2005-12-05 Updated edition of a best-selling title Author brings 25 years experience to the work Addresses the key issues of economy and environment Marine pipelines for the transportation of oil and gas have become a safe and reliable way to exploit the valuable resources below the world's seas and oceans. The design of these pipelines is a relatively new technology and continues to evolve in its quest to reduce costs and minimise the effect on the environment. With over 25 years experience, Professor Yong Bai has been able to assimilate the essence of the applied mechanics aspects of offshore pipeline system design in a form of value to students and designers alike. It represents an excellent source of up to date practices and knowledge to help equip those who wish to be part of the exciting future of this industry.

Tubular Structures XV Eduardo de Miranda Batista 2015-04-23 Tubular Structures XV contains the latest scientific and engineering developments in the field of tubular structures, as presented at the 15th International Symposium on Tubular Structures (ISTS15, Rio de Janeiro, Brazil, 27-29 May 2015). The International Symposium on Tubular Structures (ISTS) has a long-standing reputation for being the principal

User Modeling 2007 Cristina Conati 2007-08-28 This book constitutes the refereed proceedings of the 11th International Conference on User Modeling, UM 2007, held in Corfu, Greece in July 2007. Coverage includes evaluating user/student modeling techniques, data mining and machine learning for user modeling, user adaptation and usability, modeling affect and meta-cognition, as well as intelligent information retrieval, information filtering and content personalization.

Proceedings 2001

Buckling and Ultimate Strength of Ship and Ship-like Floating Structures Tetsuya Yao 2016-08-11 Buckling and Ultimate Strength of Ship and Ship-like Floating Structures provides an integrated state-of-the-art evaluation of ship structure mechanics including buckling, plastic failure, ultimate strength, and ultimate bending moments. For the design of any industrial product, it is necessary to understand the fundamentals in the failure behavior of structures under extreme loads. Significant developments have been made in understanding the analysis method of plastic collapse and behavior and strength of structures accompanied by buckling. Written by two of the foremost experts in international ship design and ocean engineering, this book introduces fundamental theories and methods as well as new content on the behavior of buckling/plastic collapse that help explain analysis like the initial imperfections produced by welding and the ultimate strength of plates, double bottom structures of bulk carriers, and ship and FPSO hull girders in longitudinal bending. Rounding out with additional coverage on floating structures such as oil and gas platforms and LNG/FLNG structural characteristics, Buckling and Ultimate Strength of Ship and Ship-like Floating Structures is a must-have resource for naval architects and other marine engineering professionals seeking to gain an in-depth understanding of the technological developments in this area. Explains how the initial imperfections produced by welding, residual stress, and initial deflection in panels influence the collapse behavior and the compressive ultimate strength of rectangular plates Evaluates the ultimate strength of plate girders under bending and shearing as well as combined bend/shear loads Provides fundamental theories, simple formulas, and analytical methods such as Finite Element Method or Smith's Method to simulate and evaluate buckling/plastic collapse behavior and strength of plates under various conditions Authored by two of the foremost experts in international ship design and ocean engineering Includes additional coverage on floating

structures such as oil and gas platforms

Rotating Machinery, Vibro-Acoustics & Laser Vibrometry, Volume 7 Dario Di Maio 2018-06-04
Rotating Machinery, Vibro-Acoustics & Laser Vibrometry, Volume 7: Proceedings of the 36th IMAC, A Conference and Exposition on Structural Dynamics, 2018, the seventh volume of nine from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Rotating Machinery, Hybrid Testing, Vibro-Acoustics & Laser Vibrometry, including papers on: Rotating Machinery Vibro-Acoustics Experimental Techniques Scanning Laser Doppler Vibrometry Methods

Fatigue Design (ESIS 16) J. Solin 1993-03-02 A compilation of research in fatigue design, prediction, and assessment Fatigue Design is a collection of research presented at the 1993 International Symposium on Fatigue Design. Detailing the latest findings and most current research, this book features papers on a variety of pertinent topics, including the quantification of service load for fatigue life predictions, identification of stress states and failure modes, assessment of residual life in damaged components, and more. Special attention is paid to the need for simple and reliable prediction tools to help better ensure adequate strength at the design stage.

Deepwater Drilling Peter Aird 2018-12-03 Deepwater Drilling: Well Planning, Design, Engineering, Operations, and Technology Application presents necessary coverage on drilling engineering and well construction through the entire lifecycle process of deepwater wells. Authored by an expert with real-world experience, this book delivers illustrations and practical examples throughout to keep engineers up-to-speed and relevant in today's offshore technology. Starting with pre-planning stages, this reference dives into the rig's elaborate rig and equipment systems, including ROVs, rig inspection and auditing procedures. Moving on, critical drilling guidelines are covered, such as production casing, data acquisition and well control. Final sections cover managed pressure drilling, top and surface hole "riserless" drilling, and decommissioning. Containing practical guidance and test questions, this book presents a long-awaited resource for today's offshore engineers and managers. Helps readers gain practical experience from an author with over 35 years of offshore field know-how Presents offshore drilling operational best practices and tactics on well integrity for the entire lifecycle of deepwater wells Covers operations and personnel, from emergency response management, to drilling program outlines

Deepwater Foundations and Pipeline Geomechanics William O. McCarron 2011-09-15 Practicing engineers in the offshore and reservoir engineering industry will find this timely volume filled with practical advice and expert information on current oil field development from oil exploration to production.

Text, Speech and Dialogue Petr Sojka 2012-08-08 This book constitutes the refereed proceedings of the 15th International Conference on Text, Speech and Dialogue, TSD 2012, held in Brno, Czech Republic, in September 2012. The 82 papers presented together with 2 invited talks were carefully reviewed and selected from 173 submissions. The papers are organized in topical sections on corpora and language resources, speech recognition, tagging, classification and parsing of text and speech, speech and spoken language generation, semantic processing of text and speech, integrating applications of text and speech processing, machine translation, automatic dialogue systems, multimodal techniques and modeling.

Handbook of Structural Engineering W.F. Chen 2005-02-28 Continuing the tradition of the

best-selling Handbook of Structural Engineering, this second edition is a comprehensive reference to the broad spectrum of structural engineering, encapsulating the theoretical, practical, and computational aspects of the field. The authors address a myriad of topics, covering both traditional and innovative approaches to analysis, design, and rehabilitation. The second edition has been expanded and reorganized to be more informative and cohesive. It also follows the developments that have emerged in the field since the previous edition, such as advanced analysis for structural design, performance-based design of earthquake-resistant structures, lifecycle evaluation and condition assessment of existing structures, the use of high-performance materials for construction, and design for safety. Additionally, the book includes numerous tables, charts, and equations, as well as extensive references, reading lists, and websites for further study or more in-depth information. Emphasizing practical applications and easy implementation, this text reflects the increasingly global nature of engineering, compiling the efforts of an international panel of experts from industry and academia. This is a necessity for anyone studying or practicing in the field of structural engineering. New to this edition

Fundamental theories of structural dynamics
Advanced analysis
Wind and earthquake-resistant design
Design of prestressed concrete, masonry, timber, and glass structures
Properties, behavior, and use of high-performance steel, concrete, and fiber-reinforced polymers
Semirigid frame structures
Structural bracing
Structural design for fire safety

Technology Innovation in Mechanical Engineering Prem Kumar Chaurasiya 2022-04-29 This book comprises select papers presented at the conference on Technology Innovation in Mechanical Engineering (TIME-2021). The book discusses the latest innovation and advanced research in the diverse field of Mechanical Engineering such as materials, manufacturing processes, evaluation of materials properties for the application in automotive, aerospace, marine, locomotive and energy sectors. The topics covered include advanced metal forming, Energy Efficient systems, Material Characterization, Advanced metal forming, bending, welding & casting techniques, Composite and Polymer Manufacturing, Intermetallics, Future generation materials, Laser Based Manufacturing, High-Energy Beam Processing, Nano materials, Smart Material, Super Alloys, Powder Metallurgy and Ceramic Forming, Aerodynamics, Biological Heat & Mass Transfer, Combustion & Propulsion, Cryogenics, Fire Dynamics, Refrigeration & Air Conditioning, Sensors and Transducers, Turbulent Flows, Reactive Flows, Numerical Heat Transfer, Phase Change Materials, Micro- and Nano-scale Transport, Multi-phase Flows, Nuclear & Space Applications, Flexible Manufacturing Technology & System, Non-Traditional Machining processes, Structural Strength and Robustness, Vibration, Noise Analysis and Control, Tribology. In addition, it discusses industrial applications and cover theoretical and analytical methods, numerical simulations and experimental techniques in the area of Mechanical Engineering. The book will be helpful for academics, including graduate students and researchers, as well as professionals interested in interdisciplinary topics in the areas of materials, manufacturing, and energy sectors.

Geotechnical Engineering Jean-Louis Briaud 2013-10-02 Written by a leader on the subject, Introduction to Geotechnical Engineering is first introductory geotechnical engineering textbook to cover both saturated and unsaturated soil mechanics. Destined to become the next leading text in the field, this book presents a new approach to teaching the subject, based on fundamentals of unsaturated soils, and extending the description of applications of soil mechanics to a wide variety of topics. This groundbreaking work features a number of topics typically left out of undergraduate geotechnical courses.

Frontiers in Offshore Geotechnics II Susan Gourvenec 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

Recent Advances in Earthquake Engineering in Europe Kyriazis Pitilakis 2018-04-24 This book is a collection of invited lectures including the 5th Nicholas Ambraseys distinguished lecture, four keynote lectures and twenty-two thematic lectures presented at the 16th European Conference on Earthquake Engineering, held in Thessaloniki, Greece, in June 2018. The lectures are put into chapters written by the most prominent internationally recognized academics, scientists, engineers and researchers in Europe. They address a comprehensive collection of state-of-the-art and cutting-edge topics in earthquake engineering, engineering seismology and seismic risk assessment and management. The book is of interest to civil engineers, engineering seismologists, seismic risk managers, policymakers and consulting companies covering a wide spectrum of fields from geotechnical and structural earthquake engineering, to engineering seismology and seismic risk assessment and management. Scientists, professional engineers, researchers, civil protection policymakers and students interested in the seismic design of civil engineering structures and infrastructures, hazard and risk assessment, seismic mitigation policies and strategies, will find in this book not only the most recent advances in the state-of-the-art, but also new ideas on future earthquake engineering and resilient design of structures. Chapter 1 of this book is available open access under a CC BY 4.0 license.

Ermüdungsverhalten von Schweißverbindungen aus höchstfestem Stahl im Kurzzeitfestigkeitsbereich Hrabowski, Jennifer C. 2019-10-11

Design Loads on Structures During Construction 2015-02 Prepared by the Design Loads on Structures during Construction Standards Committee of the Codes and Standards Activities Division of the Structural Engineering Institute of ASCE Design loads during construction must account for the often short duration of loading and for the variability of temporary loads. Many elements of the completed structure that provide strength, stiffness, stability, or continuity may not be present during construction. Design Loads on Structures during Construction, ASCE/SEI 37-14, describes the minimum design requirements for construction loads, load combinations, and load factors affecting buildings and other structures that are under construction. It addresses partially completed structures as well as temporary support and access structures used during construction. The loads specified are suitable for use either with strength design criteria, such as ultimate strength design (USD) and load and resistance factor design (LRFD), or with allowable stress design (ASD) criteria. The loads are applicable to all conventional construction methods. Topics include: load factors and load combinations; dead and live loads; construction loads; lateral earth pressure; and environmental loads. Of particular note, the environmental load provisions have been aligned with those of Minimum Design Loads for Buildings and Other Structures, ASCE/SEI 7-10. Because ASCE/SEI 7-10 does not address loads during construction, the environmental loads in this standard were adjusted for the duration of the construction period. This new edition of Standard 37 prescribes loads based on probabilistic analysis, observation of construction practices, and expert opinions. Embracing comments, recommendations, and experiences that have evolved since the original 2002 edition, this standard serves structural engineers, construction engineers, design professionals, code officials, and building owners.

Proceedings of the 2nd Vietnam Symposium on Advances in Offshore Engineering Dat Vu

Khoa Huynh 2021-12-24 This book gathers a selection of refereed papers presented at the 2nd Vietnam Symposium on Advances in Offshore Engineering (VSOE 2021), held in 2022 in Ho Chi Minh City, Vietnam. The book consists of articles written by researchers, practitioners, policymakers, and entrepreneurs addressing the important topic of technological and policy changes intended to promote renewable energies and to generate business opportunities in oil and gas and offshore renewable energy. With a special focus on sustainable energy and marine planning, the book brings together the latest lessons learned in offshore engineering, technological innovations, cost-effective and safer foundations and structural solutions, environmental protection, hazards, vulnerability, and risk management. Its content caters to graduate students, researchers, and industrial practitioners working in the fields of offshore engineering and renewable energies.

Proceedings of the Indian Geotechnical Conference 2019 Satyajit Patel 2021-06-04 This book comprises select proceedings of the annual conference of the Indian Geotechnical Society. The conference brings together research and case histories on various aspects of geotechnical and geoenvironmental engineering. The book presents papers on geotechnical applications and case histories, covering topics such as (i) Characterization of Geomaterials and Physical Modelling; (ii) Foundations and Deep Excavations; (iii) Soil Stabilization and Ground Improvement; (iv) Geoenvironmental Engineering and Waste Material Utilization; (v) Soil Dynamics and Earthquake Geotechnical Engineering; (vi) Earth Retaining Structures, Dams and Embankments; (vii) Slope Stability and Landslides; (viii) Transportation Geotechnics; (ix) Geosynthetics Applications; (x) Computational, Analytical and Numerical Modelling; (xi) Rock Engineering, Tunnelling and Underground Constructions; (xii) Forensic Geotechnical Engineering and Case Studies; and (xiii) Others Topics: Behaviour of Unsaturated Soils, Offshore and Marine Geotechnics, Remote Sensing and GIS, Field Investigations, Instrumentation and Monitoring, Retrofitting of Geotechnical Structures, Reliability in Geotechnical Engineering, Geotechnical Education, Codes and Standards, and other relevant topics. The contents of this book are of interest to researchers and practicing engineers alike.

Mechanics of Offshore Pipelines Stelios Kyriakides 2007-07-26 Offshore oil and gas production was conducted throughout the entire 20th century, but the industry's modern importance and vibrancy did not start until the early 1970s, when the North Sea became a major producer. Since then, the expansion of the offshore oil industry has been continuous and rapid. Pipelines, and more generally long tubular structures, are major oil and gas industry tools used in exploration, drilling, production, and transmission. Installing and operating tubular structures in deep waters places unique demands on them. Technical challenges within the field have spawned significant research and development efforts in a broad range of areas. Volume I addresses problems of buckling and collapse of long inelastic cylinders under various loads encountered in the offshore arena. Several of the solutions are also directly applicable to land pipelines. The approach of Mechanics of Offshore Pipelines is problem oriented. The background of each problem and scenario are first outlined and each discussion finishes with design recommendations. * New and classical problems addressed - investigated through a combination of experiments and analysis * Each chapter deals with a specific mechanical problem that is analyzed independently * The fundamental nature of the problems makes them also applicable to other fields, including tubular components in nuclear reactors and power plants, aerospace structures, automotive and civil engineering structures, naval vehicles and structures

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