

Offshore Geotechnical Engineering

Offshore Geotechnical Engineering Offshore Geotechnical Engineering Frontiers in Offshore Geotechnics II Offshore Geotechnical Engineering Frontiers in Offshore Geotechnics III Advances in Offshore Geotechnics Proceedings of the 1st Vietnam Symposium on Advances in Offshore Engineering Offshore Technology in Civil Engineering, Volume Two Proceedings of the 3rd Vietnam Symposium on Advances in Offshore Engineering New Challenges in Offshore Geotechnical Engineering Developments Intermediate Offshore Foundations Offshore and Nearshore Geotechnical Engineering Proceedings of the 2nd Vietnam Symposium on Advances in Offshore Engineering Navigating Offshore Geotechnical Challenges Offshore Site Investigation and Foundation Behaviour Coastal Geohazard and Offshore Geotechnics Essentials of Offshore Structures Geotechnical Engineering Frontiers in Offshore Geotechnics Coastal Geohazard and Offshore Geotechnics Mark Randolph E. T. R. Dean Susan Gourvenec Mark Felton Randolph Vaughan Meyer Sumanta Haldar M.F. Randolph J. S. Templeton Dat Vu Khoa Huynh Pan Hu Steve Kay Sushil Kumar Singh Dat Vu Khoa Huynh Parthasarathy Cr D.A. Ardus Dong-Sheng Jeng D.V. Reddy Sayed Hemed Susan Gourvenec Dong-Sheng Jeng

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design practice in offshore geotechnical engineering has grown out of onshore practice but the two application areas have tended to diverge over the last thirty years driven partly by the scale of the foundation and anchoring elements used offshore and partly by fundamental differences in construction and installation techniques as a consequence offshore geotechnical engineering has grown as a speciality the structure of offshore geotechnical engineering follows a pattern that mimics the flow of a typical offshore project in the early chapters it provides a brief overview of the marine environment offshore site investigation techniques and interpretation of soil behaviour it proceeds to cover geotechnical design of piled foundations shallow foundations and anchoring systems three topics are then covered which require a more multi disciplinary approach the design of mobile drilling rigs pipelines and geohazards this book serves as a framework for undergraduate and postgraduate courses and will appeal to professional engineers specialising in the offshore industry

with activity in the engineering of offshore structures increasing around the world offshore geotechnical engineering offers a timely introduction to many of the core design and assessment skills required of those working in the sector in accordance with the latest codes and standards all major aspects of the subject are covered in depth including offshore site investigation surveys soil mechanics jackups jacket platforms gravity platforms pipelines artificial islands wind turbine support structures and deepwater solutions

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

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frontiers in offshore geotechnics iii comprises the contributions presented at the third international symposium on frontiers in offshore geotechnics isfog oslo norway 10 12 june 2015 organised by the norwegian geotechnical institute ngi the papers address current and emerging geotechnical engineering challenges facing those working in off

this book comprises select proceedings of the first indian symposium on offshore geotechnics it addresses state of the art and emerging challenges in offshore design and construction the theme papers from leading academicians and practitioners provide a comprehensive overview of the broad topics encompassing various challenges in offshore geotechnical engineering it covers various aspects pertaining to offshore geotechnics such as offshore site investigation soil characterization geotechnics related to offshore renewable energy converters offshore foundations and anchoring systems pipelines and deep sea explorations this volume provides a comprehensive reference for professionals and researchers in offshore civil and maritime engineering and for soil mechanics specialists

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

the offshore technology conference otc is the world s leading event for the development of offshore resources in the fields of drilling exploration production and environmental protection offshore technology in civil engineering hall of fame papers from the early years volume two is a collection of the nine winning papers inducted in 2007 the classic documents contained in this volume form the core of current practice worldwide covering major topics in offshore technology such as long term wave probabilities tubular joints offshore gravity structures wave return periods and linearization techniques

this book compiles a selection of peer reviewed papers presented at the 3rd vietnam symposium on advances in offshore engineering vsoe 2024 held from december 12 14 in hanoi vietnam featuring contributions from leading researchers industry experts and policymakers the book explores innovative solutions and interdisciplinary approaches to tackle the challenges of sustainable offshore infrastructure with a focus on cutting edge technologies and strategies the book covers topics such as offshore geotechnics renewable energy systems subsea infrastructure environmental sustainability risk assessment and digital advancements like artificial intelligence and digital twins it also emphasizes vietnam s significant contributions to offshore energy development exploring opportunities in offshore wind energy oil and gas innovations and the transformation of decommissioned platforms into sustainable renewable energy solutions this collection serves as an essential resource for graduate students academics engineers and professionals involved in offshore engineering energy systems and marine infrastructure offering insights into emerging trends practical applications and innovative solutions

we are pleased to announce the launch of a special issue on new challenges in offshore geotechnical engineering developments with the aim of contributing to the publication of high quality research on all the main aspects of offshore geotechnical engineering and ocean engineering with the boom of the offshore oil and gas sector and renewable energy sector complex loading conditions layered soil stratigraphy greater water depths and new foundations continue to pose new challenges the growing focus on these sectors in various regions and extreme conditions has raised the need for a deep understanding of geotechnical challenges as well as innovative solutions to these challenges this special issue will focus on the issues with current practice and identify emerging and further geotechnical challenges and corresponding solutions associated with the offshore engineering projects this includes new research case studies and advanced technologies as well as reliability and safety design submissions of original and high quality research on all the relevant branches are strongly encouraged

intermediate foundations are used as anchors for floating platforms and ancillary structures foundations for steel jackets and to support seafloor equipment and offshore wind turbines when installed by suction they are an economical alternative to piling and also may be completely removed they are usually circular in plan and are essentially rigid when laterally loaded length to diameter embedment ratios l/d generally vary between 0.5 and 10 spanning the gap between shallow and deep foundations although these are indicative boundaries and the response rather than the embedment ratio defines an intermediate foundation the first chapters introduce foundation types compare shallow intermediate and deep foundation models and design define unique design issues that make

intermediate foundations distinct from shallow and deep foundations as well as list their hazards that mainly occur during installation later chapters cover installation in place resistance and in place response and miscellaneous design considerations there is no general agreement as to which design methods models are appropriate so models should only be as accurate as the data therefore several reasonably accurate models are provided together with comprehensive discussion and advice example calculations and over 200 references are also included this is the first book dedicated to the geotechnical design of intermediate foundations and it will appeal to professional engineers specialising in the offshore industry

this title covers six themes offshore geotechnical engineering laboratory in situ and field testing and behaviour of soil model testing soil structure interaction nearshore geotechnical engineering and marine environmental geotechnics and soil improvement

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

navigating offshore geotechnical challenges takes you deep beneath the waves into the world of offshore geotechnical engineering where every structure begins with understanding the soil it stands on this book equips you with the knowledge tools and insights needed to tackle the most demanding geotechnical challenges in offshore environments from site characterization to deep foundation testing spanning key regions like malaysia indonesia india uae and saudi arabia the book brings real world case studies and insightful interviews with top industry experts learn from leaders of oil companies epc giants and survey specialists as they share their most valuable lessons best practices and visions for the future whether you're an engineer student contractor or a curious mind this book offers more than just information it gives you a front row seat to the cutting edge of offshore geotechnical engineering and

a deeper understanding of how great projects succeed from the seabed up pick up this book and discover the compass that guides every offshore challenge to a successful shore

two main areas of offshore activity are addressed in this book site investigation on assessment and applications and foundation engineering the 37 contributions from a wide ranging group of international experts are resulting from the offshore site investigation and foundation behaviour conference london u k september 1992 adequate determination of site conditions can only be achieved by the integrated approach of using geological geophysical and geotechnical data developments in data acquisition techniques are illustrated through case histories in the section on geotechnical sampling and testing in the section on advanced interpretation techniques and integrated interpretations the state of the art of these topics is also illustrated by case histories a review of foundation behaviour is presented in the section on gravity foundations foundation performance monitoring piling research and design criteria these topics are illustrated in the light of field experience and recent research in particular that involving full scale tests and monitoring this book provides many illustrative figures and much pertinent information to exploration and marine geophysicists petroleum and offshore engineers and for researchers working these fields

with rapid developments being made in the exploration of marine resources coastal geohazard and offshore geotechnics have attracted a great deal of attention from coastal geotechnical engineers with significant progress being made in recent years due to the complicated nature of marine environments there are numerous natural marine geohazard present throughout the world's marine areas e g the south china sea in addition damage to offshore infrastructure e g monopiles bridge piers etc and their supporting installations pipelines power transmission cables etc has occurred in the last decades a better understanding of the fundamental mechanisms and soil behavior of the seabed in marine environments will help engineers in the design and planning processes of coastal geotechnical engineering projects the purpose of this book is to present the recent advances made in the field of coastal geohazards and offshore geotechnics the book will provide researchers with information regarding the recent developments in the field and possible future developments the book is composed of eighteen papers covering three main themes 1 the mechanisms of fluid seabed interactions and the instability associated with seafloors when they are under dynamic loading papers 1 5 2 evaluation of the stability of marine infrastructure including pipelines papers 6 8 piled foundation and bridge piers papers 9 12 submarine tunnels paper 13 and other supported foundations paper 14 and 3 coastal geohazards including submarine landslides and slope stability papers 15 16 and other geohazard issues papers 17 18 the editors hope that this book will function as a guide for

researchers scientists and scholars as well as practitioners of coastal and offshore engineering

essentials of offshore structures framed and gravity platforms examines the engineering ideas and offshore drilling platforms for exploration and production this book offers a clear and acceptable demonstration of both the theory and application of the relevant procedures of structural fluid and geotechnical mechanics to offshore structures it

this book discusses contemporary issues related to soil mechanics and foundation engineering in earthworks which are critical components in construction projects and often require detailed management techniques and unique solutions to address failures and implement remedial measures the geotechnical engineering community continues to improve the classical testing techniques for measuring critical properties of soils and rocks including stress wave based non destructive testing methods as well as methods used to improve shallow and deep foundation design to minimize failure during construction contemporary issues and related data may reveal useful lessons to improve project management and minimize economic losses this book focuses on these aspects using appropriate methods in a rather simple manner it also touches upon many interesting topics in soil mechanics and modern geotechnical engineering practice such as geotechnical earthquake engineering principals in foundation design slope stability analysis modeling in geomechanics offshore geotechnics and geotechnical engineering perspective in the preservation of historical buildings and archeological sites a total of seven chapters are included in the book

the papers collected in this book treat a variety of numerical and theoretical investigations experimental programmes and field experience with established design methods discussed alongside state of the art practices this book is intended for professionals and researchers in offshore civil and maritime engineering and soil mechanics specialists

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