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KEY=VESSEL - GABRIELLE CHOI

SUBTECH '91

Back to the Future. Papers presented at a conference organized by the Society for Underwater Technology and held in Aberdeen, UK, November 12-14, 1991

Springer Science & Business Media The concept of using flexible, reelable pipe to transport liquids, gases, and vapours is not a new one. As early as the 1940s a steel braided elastomeric pipeline was developed for the Allied Forces in order to transport fuels to support the Normandy Beacheads. In fact, the longest flexible pipeline ever constructed is likely to be that laid across the English Channel as part of 'Operation Pluto'. The methodology used to handle and instal such pipe is also not new. Ellis (1943, London) in an early patent specification identifies three basic objectives for a flexible pipelining method. These are: prefabrication of the pipe onshore; coiling of the pipe on suitable drums or reels; and using such reels to lay pipe from

anchored or motorised barges. The design concept for flexible pipe is also not a new invention given that flexible hoses and umbilicals have been in service for more than sixty years. A break-through was however achieved by the French Institute of Petroleum in the early 1970s when they developed an improved steel reinforced pipe structure having a high axial loading capacity which utilised corrosion and hydrocarbon resistant polymers to extend pipe service lifetime. This early pipe design utilised established cable making techniques to apply steel armour and axially and radially reinforce alternating layers of polymer sheaths. The pipe was primarily developed as a flowline for use in static seabed applications.

A Holistic Approach to Ship Design

Volume 2: Application Case Studies

Springer Nature This book deals with modern Computer-Aided Design (CAD) software tools and platforms implemented in ship design, the integration of techno-economic databases, the use of optimisation and simulation software tools, which are integrated in these platforms, and the virtual modelling of ships and their operation by using a Virtual Vessel Framework (VVF). It contains a series of application case studies related to the developed holistic approach to ship design and operation. Nine case studies are described, referring to the design and operation of various ship types, namely RoPax, cruise ship, double-ended ferry, bulk carrier, containership, offshore support vessel, ocean surveillance ship and research vessel and one offshore structure. All case studies are driven by leading representatives of the European Maritime Industry. This book complements *A Holistic Approach to Ship Design, volume 1*, which covers methods and tools for the life cycle optimisation and assessment of ship design and operation.

Offshore Service Industry and Logistics Modeling in the Gulf of Mexico

Springer The purpose of this book is to examine the geospatial and temporal linkage between offshore supply vessels and oil and gas activity in the Outer Continental Shelf Gulf of Mexico, and to model OSV activity expected to result from future lease sales. Oil and gas operations occur throughout the world wherever commercial accumulations exist, but no quantitative assessment has ever been performed on the marine vessels that support offshore activity. The OCS Gulf of Mexico is the largest and most prolific offshore oil and gas basin in the world, and a large number of

marine vessels are engaged in operations in the region, but tracking their activity is difficult and requires specialized data sources and the development of empirical models. The challenge of modeling arises from the complexity and size of the system, and the particular limitations governing stochastic difficult-to-observe networks. This book bridges the gap with the latest technological perspective and provides insight and computational methods to inform and better understand the offshore sector. **Offshore Service Industry and Logistics Modeling in the Gulf of Mexico** is presented in three parts. In Part 1, background information on the life cycle stages of offshore development and activity is reviewed, along with a description of the service vessels and port infrastructure in the region. In Part 2, OSV activity in the Gulf of Mexico is baselined using PortVision data to establish spatial and temporal characteristics of vessel activity. In Part 3, the analytic framework used to quantify the connection between OSVs, ports, and offshore activity is described, and activity expected to arise from the 2012-2017 OCS lease program is forecast. Providing an invaluable resource for academics and researchers, this book is also intended for government regulators, energy and environmental analysts, industry professionals, and others interested in this often-overlooked sector.

The Statesman's Year-Book 1989-90

Springer The classic reference work that provides annually updated information on the countries of the world.

Bibliography of Nautical Books

This is the 15th annual edition of the Bibliography of Nautical Books, a reference guide to over 14,000 nautical publications. It deals specifically with the year 2000.

European Communities Oil and Gas Technological Development Projects

Fourth Status Report

Springer Science & Business Media Introduction IX Community Energy Research and Development Strategy Programme Characteristics

**Implementation and Supervision Structure Status of Implementation
Diffusion of Knowledge and Results Information for Future Proponents
Breakdown of Support by Sector Breakdown of Projects by Sector
Geophysics and Prospecting Drilling 57 Production Systems 79 Secondary
and Enhanced Recovery 183 Environmental Influence on Offshore 245
Auxiliary Ships and Submersibles 253 Pipelines 271 Transport 289 Natural
Gas Technology 313 Energy Sources 323 Storage 333 Miscellaneous 343 v
PREFACE** The 1973 oil crisis highlighted the dependency of the Community on imported hydrocarbons to satisfy its energy demand. Therefore, in order to improve security of supply the Community has developed since 1973 a programme assisting the oil industry to develop new technologies required for exploiting oil and gas resources outside and inside the Community territories. This programme (Regulations 3056/73 and 3639/85) has allowed remarkable achievements in a sector where innovation is needed to take up the challenge of producing oil and gas in difficult environments. This report shows the achievements of the Community programme. It gives evidence of the high technical level which has already been attained by the companies in the oil and gas sector with the support of the Community.

A Holistic Approach to Ship Design

Volume 1: Optimisation of Ship Design and Operation for Life Cycle

Springer This book introduces a holistic approach to ship design and its optimisation for life-cycle operation. It deals with the scientific background of the adopted approach and the associated synthesis model, which follows modern computer aided engineering (CAE) procedures. It integrates techno-economic databases, calculation and multi-objective optimisation modules and s/w tools with a well-established Computer-Aided Design (CAD) platform, along with a Virtual Vessel Framework (VVF), which will allow virtual testing before the building phase of a new vessel. The resulting graphic user interface (GUI) and information exchange systems enable the exploration of the huge design space to a much larger extent and in less time than is currently possible, thus leading to new insights and promising new design alternatives. The book not only covers the various stages of the design of the main ship system, but also addresses relevant major onboard systems/components in terms of life-cycle performance to offer readers a better understanding of suitable outfitting details, which is a key aspect when it comes the outfitting-intensive products of international shipyards. The book disseminates results of the EU funded Horizon 2020 project HOLISHIP.

Maritime Archaeology

A Reader of Substantive and Theoretical Contributions

Springer Science & Business Media This volume initiates a new series of books on maritime or underwater archaeology, and as the editor of the series I welcome its appearance with great excitement. It is appropriate that the first book of the series is a collection of articles intended for graduate or undergraduate courses in underwater archaeology, since the growth in academic opportunities for students is an important sign of the vitality of this subdiscipline. The layman will enjoy the book as well. Academic and public interest in shipwrecks and other submerged archaeological sites is indicated by a number of factors. Every year there are 80 to 90 research papers presented at the Society for Historical Archaeology's Conference on Historical and Underwater Archaeology, and the Proceedings are published. Public interest is shown by extensive press coverage of shipwreck investigations. One of the most important advances in recent years has been the passage of the Abandoned Shipwreck Act of 1987, for the first time providing national-level law concerning underwater archaeological sites. The legislation has withstood a number of legal challenges by commercial treasure salvors, a very hopeful sign for the long-term preservation of this nonrenewable type of cultural resource. The underwater archaeological discoveries of 1995 were particularly noteworthy. The Texas Historical Commission discovered the Belle, one of La Salle's ships, and the CSS Hunley was found by a joint project of South Carolina and a private nonprofit organization called NUMA.

From Agglomeration to Innovation

Upgrading Industrial Clusters in Emerging Economies

Springer This book provides a coherent and useful framework to explain the formation of agglomeration and the endogenous innovation process of upgrading industrial clusters to the higher R&D. It contains country studies including; China, India, Japan, Brazil, Thailand, Malaysia, and Singapore.

Advances in Subsea Pipeline Engineering and Technology

Papers presented at Aspect '90, a conference organized by the Society for Underwater Technology and held in Aberdeen, Scotland, May 30–31, 1990

Springer Science & Business Media Dr C P Ellinas Advanced Mechanics & Engineering Ltd Major advances have been achieved in recent years in subsea pipeline design and installation. Inspection, maintenance and repair have also received much attention. The development of marginal fields has brought with it special problems, which have necessitated novel methods and solutions. In the meanwhile interest in the development of deepwater fields continues with the development of new technology. This Conference has placed emphasis in addressing developments in pipeline technology under four main headings: pipeline/seabed interaction; flexible pipelines; pipeline design, fabrication and installation; deepwater applications. Advances in North Sea technology over the last few years have been concerned mostly with marginal fields, small diameter pipelines and new materials, which are well covered in the first three topics. Economic development of marginal fields requires processing of oil and gas to take place not at the wellhead but at existing facilities, usually some distance away. Hydrocarbons are thus often transported at high pressure and temperature in small diameter pipelines, which need to be protected through trenching. However, such operational practice has brought to the fore a problem that in the past was of little concern namely, upheaval buckling.

Offshore Risk Assessment

Principles, Modelling and

Applications of QRA Studies

Springer Science & Business Media Offshore Risk Assessment is the first book to deal with quantified risk assessment (QRA) as applied specifically to offshore installations and operations. Risk assessment techniques have been used for some years in the offshore oil and gas industry, and their use is set to expand increasingly as the industry moves into new areas and faces new challenges in older regions. The book starts with a thorough discussion of risk analysis methodology. Subsequent chapters are devoted to analytical approaches to escalation, escape, evacuation and rescue analysis of safety and emergency systems. Separate chapters analyze the main hazards of offshore structures: Fire, explosion, collision and falling objects. Risk mitigation and control are then discussed, followed by an outline of an alternative approach to risk modelling that focuses especially on the risk of short-duration activities. Not only does the book describe the state of the art of QRA, it also identifies weaknesses and areas that need development. Readership: Besides being a comprehensive reference for academics and students of marine/offshore risk assessment and management, the book should also be owned by professionals in the industry, contractors, suppliers, consultants and regulatory authorities.

Subsea International' 93

Low Cost Subsea Production Systems

Springer Science & Business Media The three parts of this volume - Technical Refinement; Technical Innovation; and Project Management and Risk Minimisation - reflect the areas of opportunity for improved cost effective techniques for exploration and production of oil and gas in the North Sea and worldwide. The book is indispensable for engineers and scientists interested in the latest advances in technology and resource management that will reduce costs and continue to enhance the safe exploration of oil and gas resources. This volume comprises a selection of contributions presented at the International Conference Subsea International '93, held 28--29 April 1993 in Aberdeen, U.K.

Ship Design

Methodologies of Preliminary Design

Springer This book deals with ship design and in particular with methodologies of the preliminary design of ships. The book is complemented by a basic bibliography and five appendices with useful updated charts for the selection of the main dimensions and other basic characteristics of different types of ships (Appendix A), the determination of hull form from the data of systematic hull form series (Appendix B), the detailed description of the relational method for the preliminary estimation of ship weights (Appendix C), a brief review of the historical evolution of shipbuilding science and technology from the prehistoric era to date (Appendix D) and finally a historical review of regulatory developments of ship's damage stability to date (Appendix E). The book can be used as textbook for ship design courses or as additional reading for university or college students of naval architecture courses and related disciplines; it may also serve as a reference book for naval architects, practicing engineers of related disciplines and ship officers, who like to enter the ship design field systematically or to use practical methodologies for the estimation of ship's main dimensions and of other ship main properties and elements of ship design.

High Speed Catamarans and Multihulls

Technology, Performance, and Applications

Springer High speed catamaran and multihull high speed marine vessel have become very popular in the last two decades. The catamaran has become the vessel of choice for the majority of high speed ferry operators worldwide. There have been significant advances in structural materials, and structural design has been combined with higher power density and fuel efficient engines to deliver ferries of increasing size. The multihull has proven itself to be a suitable configuration for active power projection across oceans as well as for coastal patrol and protection, operating at high speed for insertion or retrieval with a low energy capability. At present there is no easily accessible material covering the combination of hydrodynamics, aerodynamics, and design issues including structures, powering and propulsion for these vehicles. Coverage in High Speed

Catamarans and Multihulls includes an introduction to the history, evolution, and development of catamarans, followed by a theoretical calculation of wave resistance in shallow and deep water, as well as the drag components of the multihull. A discussion of vessel concept design describing design characteristics, empirical regression for determination of principal dimensions in preliminary design, general arrangement, and methods is also included. The book concludes with a discussion of experimental future vehicles currently in development including the small waterplane twin hull vessels, wave piercing catamarans, planing catamarans, tunnel planing catamarans and other multihull vessels.

The International Handbook of Shipping Finance

Theory and Practice

Springer The International Handbook of Shipping Finance is a one-stop resource, offering comprehensive reference to theory and practice in the area of shipping finance. In the multibillion dollar international shipping industry, it is important to understand the various issues involved in the finance of the sector. This involves the identification and evaluation of the alternative sources of capital available for financing the ships, including the appraisal and budgeting of shipping investment projects; legal and insurance aspects of ship finance; the financial analysis and modelling of investment projects; mergers and acquisitions; and the commercial and market risk management issues involved. Edited by two leading academics in this area, and with contributions from 25 prominent market practitioners and academics over 16 chapters, this Handbook covers shipping finance and banking, maritime financial management and investments. As such, it includes: shipping markets; asset backed finance; shipbuilding finance; debt finance; public and private equity and debt markets; structured finance; legal aspects and key clauses of ship mortgages; marine insurance; mechanisms for handling defaulted loans; investment appraisal and capital budgeting; financial analysis and investment modelling; business risk management and freight derivatives; and mergers and acquisitions. Thus, the Handbook offers a rigorous understanding of the different aspects of modern shipping finance and maritime financial management and investments, the various characteristics of the available products, the capital needs and requirements, and a clear view on the different financial management strategies through a series of practical examples and applications. Technical where appropriate, but grounded in market reality, this is a “must-have” reference for anyone involved in shipping finance, from bank practitioners and commodity trading houses, to shipbrokers, lawyers and insurance houses as well as to university

students studying shipping finance. Table of Contents Preface by Editors Manolis Kavussanos, Professor, Director, MSc in International Shipping, Finance and Management, Athens University of Economics and Business, Greece Ilias Visvikis, Professor, Director Executive Education and Professional Development, World Maritime University, Sweden Chapter 1: Shipping Markets and their Economic Drivers Jan-Henrik Huebner, Head of Shipping Advisory, DNV GL, Germany Chapter 2: Asset Risk Assessment, Analysis and Forecasting in Asset Backed Finance Henriette Brent Petersen, Head of Shipping & Offshore Research, DVB Bank SE, The Netherlands Chapter 3: Overview of Ship Finance Fotis Giannakoulis, Research Vice President, Morgan Stanley, USA Chapter 4: Shipbuilding Finance Charles Cushing, C.R. Cushing & Co. Inc., USA Chapter 5: Debt Financing in Shipping George Paleokrassas, Partner, Watson, Farley & Williams, Greece Chapter 6: Public Debt Markets for Shipping Basil Karatzas, Founder & CEO, Karatzas Marine Advisors & Co., USA Chapter 7: Public and Private Equity Markets Jeffrey Pribor, Global Head, Maritime Investment Banking, Jefferies LLC, USA Cecilie Lind, Associate Investment Banking, Jefferies LLC, USA Chapter 8: Structured Finance in Shipping Contributor: Ioannis Alexopoulos, Director, Shipping Financier, Eurofin Group, Greece Nikos Stratis, Managing Director of Augustea Group, UK Chapter 9: Key Clauses of a Shipping Loan Agreement Kyriakos Spoullou, Solicitor, Norton Rose Fulbright, Greece Chapter 10: Legal Aspects of Ship Mortgages Simon Norton, Lecturer, Cardiff Business School, UK Claudio Chisté, Investec Bank Plc., UK Chapter 11: Reasons and Mechanics of Handling Defaulted Shipping Loans and Methods of Recovery Dimitris Anagnostopoulos, Board Member & Director, Aegean Baltic Bank, Greece Philippos Tsamanis, VP - Head of Shipping, Aegean Baltic Bank, Greece Chapter 12: Marine Insurance Marc Huybrechts, Professor, University of Antwerp, Belgium Theodora Nikaki, Associate Professor, Swansea University, UK Chapter 13: Maritime Investment Appraisal and Budgeting Wolfgang Drobetz, Professor, University of Hamburg, Germany Stefan Albertijn, CEO, HAMANT Beratungs-und Investitions GmbH, Germany Max Johns, Managing Director, German Shipowners' Association, Germany Chapter 14: Financial Analysis and Modelling of Ship Investments Lars Patterson, Shipping Investment Analyst, Pacomarine Limited, UK Chapter 15: Maritime Business Risk Management Manolis Kavussanos, Professor, Director, MSc in International Shipping, Finance and Management, Athens University of Economics and Business, Greece Ilias Visvikis, Professor, Director Executive Education and Professional Development, World Maritime University, Sweden Chapter 16: Mergers and Acquisitions in Shipping George Alexandridis, Associate Professor, ICMA Centre, University of Reading, UK Manish Singh, Manish Singh, Group Director - Strategy and M&A, V. Group Limited, UK

Subsea International' 93

Low Cost Subsea Production Systems

Springer Science & Business Media The three parts of this volume - **Technical Refinement; Technical Innovation; and Project Management and Risk Minimisation** - reflect the areas of opportunity for improved cost effective techniques for exploration and production of oil and gas in the North Sea and worldwide. The book is indispensable for engineers and scientists interested in the latest advances in technology and resource management that will reduce costs and continue to enhance the safe exploration of oil and gas resources. This volume comprises a selection of contributions presented at the International Conference Subsea International '93, held 28--29 April 1993 in Aberdeen, U.K.

The Effects of Noise on Aquatic Life

Springer Science & Business Media The Second International Conference on the Effects of Noise on Aquatic Life will take place in Ireland August 15-20, 2010. The main emphasis of the conference will be on defining the current state of knowledge. However, we will also assess progress in the three years since the First conference. The Second conference will place strong emphasis on recent research results, the sharing of ideas, discussion of experimental approaches, and analysis of regulatory issues.

Supercomputing Frontiers

6th Asian Conference, SCFA 2020, Singapore, February 24-27, 2020, Proceedings

Springer Nature This open access book constitutes the refereed proceedings of the 6th Asian Supercomputing Conference, SCFA 2020, which was planned to be held in February 2020, but unfortunately, the physical conference was cancelled due to the COVID-19 pandemic. The 8 full papers presented in this book were carefully reviewed and selected from 22 submissions. They cover a range of topics including file systems, memory hierarchy, HPC cloud platform, container image configuration workflow, large-scale applications, and scheduling.

Norwegian Shipping in the 20th Century

Springer This book is open access under a CC BY NC ND 4.0 license. This open access book discusses how Norwegian shipping companies played a crucial role in global shipping markets in the 20th century, at times transporting more than ten per cent of world seaborne trade. Chapters explore how Norway managed to remain competitive, despite being a high labour-cost country in an industry with global competition. Among the features that are emphasised are market developments, business strategies and political decisions The Norwegian experience was shaped by the main breaking points in 20th century world history, such as the two world wars, and by long-term trends, such as globalization and liberalization. The shipping companies introduced technological and organizational innovations to build or maintain a competitive advantage in a rapidly changing world. The growing importance of offshore petroleum exploration in the North Sea from the 1970s was both a threat and an opportunity to the shipping companies. By adapting both business strategies and the political regime to the new circumstances, the Norwegian shipping sector managed to maintain a leading position internationally.

Wind Energy for Power Generation Meeting the Challenge of Practical Implementation

Springer Nature This far-reaching resource covers a full spectrum of multi-faceted considerations critical for energy generation decision makers considering the adoption or expansion of wind power facilities. It contextualizes pivotal technical information within the real complexities of economic, environmental, practical and socio-economic parameters. This matrix of coverage includes case studies and analysis from developed and developing regions, including North America and Europe, Asia, Latin America, the Middle-East and Africa. Crucial issues to power generation professionals and utilities such as: capacity credits; fuel saving; intermittency; penetration limits; relative cost of electricity by generation source; growth and cost trends; incentives; and wind integration issues are addressed. Other economic issues succinctly discussed inform financial commitment to a project, including investment matrices, strategies for economic evaluations, econometrics of wind energy, cost comparisons of various investment strategies, and cost comparisons with other energy

sources. Due to its encompassing scope, this reference will be of distinct interest to practicing engineers, policy and decision makers, project planners, investors and students working in the area of wind energy for power generation.

Principles of Sonar Performance Modelling

Springer Science & Business Media Sonar performance modelling (SPM) is concerned with the prediction of quantitative measures of sonar performance, such as probability of detection. It is a multi-disciplinary subject, requiring knowledge and expertise in the disparate fields of underwater acoustics, acoustical oceanography, sonar signal processing and statistical detection theory. No books have been published on this subject, however, since the 3rd edition of Urick's classic work 25 years ago and so Dr Ainslie's book will fill a much-needed gap in the market. Currently, up-to-date information can only be found, in different forms and often with conflicting information, in various journals, conference and textbook publications. Dr Michael Ainslie is eminently qualified to write this unique book. He has worked on sonar performance modeling problems since 1983. He has written many peer reviewed research articles and conference papers related to sonar performance modeling, making contributions in the fields of sound propagation and detection theory.

Underwater Medicine and Related Sciences

A Guide to the Literature Volume 2 An Annotated Bibliography, Key Word Index, and Microthesaurus

Springer Science & Business Media This volume is the third annotated bibliography on this subject area to be compiled by these authors. The first, published by Gordon and Breach, Science Publishers, in 1971, was entitled AN ANNOTATED BIBLIOGRAPHY ON DIVING AND SUBMARINE MEDICINE. It covered material published during the 1960's. The second volume, entitled UNDERWATER MEDICINE AND RELATED SCIENCES: A GUIDE TO THE LITERATURE, published in 1973 by Plenum Press, covered primarily material published during 1970 and 1971, with some material from 1968 and 1969. The present volume covers material published during 1972 and

1973, but here again some earlier material has been included. The purpose of these annotated bibliographies is to make available a large proportion of the published material, in abstract form, indexed in such a manner as to make it possible to compile a reasonably complete annotated bibliography on any specific subject area in the field. It is possible thus to learn where the work is being done, by whom, and how extensively. Also, it becomes obvious what areas of research are lacking or inadequate. These specific searches can also form a background of reference material on which to base further research, or from which to write monographs or state-of-the-art surveys. Papers, articles and reports listed here are in most cases readily available.

Safety and Reliability: Methodology and Applications

CRC Press Within the last fifty years the performance requirements for technical objects and systems were supplemented with: customer expectations (quality), abilities to prevent the loss of the object properties in operation time (reliability and maintainability), protection against the effects of undesirable events (safety and security) and the ability to

Underwater Medicine and Related Sciences

A Guide to the Literature An Annotated Bibliography, Key Word Index, and Microthesaurus

Springer Science & Business Media This volume follows and updates AN ANNOTATED BIBLIOGRAPHY ON DIVING AND SUBMARINE MEDICINE published by Gordon and Breach, Science Publishers, Inc., in 1971. The time period covered is primarily the calendar years 1970 and 1971. Also included, however, is much material from the calendar years 1968 and 1969 not in the previous publication. A brief analysis of the sources of material precedes the citations and abstracts, which comprise the main section of the volume. The bibliography is followed by a permuted subject index and an author index. Also included, following the indexes, is a microthesaurus. Although no attempt has been made to do a critical subject analysis, such an analysis could be accomplished through selecting a particular subject, looking up the appropriate key works in the rotated

index, identifying the abstracts, analyzing them, obtaining complete copy as desired, and completing the critical review. David C. Weeks, Ph.D. Director, BSCP Washington, D.C.

Springer Handbook of Acoustics

Springer Science & Business Media This is an unparalleled modern handbook reflecting the richly interdisciplinary nature of acoustics edited by an acknowledged master in the field. The handbook reviews the most important areas of the subject, with emphasis on current research. The authors of the various chapters are all experts in their fields. Each chapter is richly illustrated with figures and tables. The latest research and applications are incorporated throughout, including computer recognition and synthesis of speech, physiological acoustics, diagnostic imaging and therapeutic applications and acoustical oceanography. An accompanying CD-ROM contains audio and video files.

Offshore Robotics

Volume I Issue 1, 2021

Springer Nature This journal-like book series includes edited volumes to rapidly report and spread the latest technological results, new scientific discovery and valuable applied researches in the fields concerning offshore robotics as well as promote international academic exchange. We aim to make it one of the premier comprehensive academic publications of world offshore vehicle and robotics community. The audience of the series will include the scholars, researchers, engineers and students who are interested in fields of autonomous marine vehicles and robotics, including autonomous surface vehicles, autonomous underwater vehicles, remote operation vehicles, marine bionics, marine vehicle modeling, guidance, navigation, control and cooperation and so on.

Introduction to Permanent Plug and Abandonment of Wells

Springer Nature This open access book offers a timely guide to challenges and current practices to permanently plug and abandon hydrocarbon wells. With a focus on offshore North Sea, it analyzes the process of plug and abandonment of hydrocarbon wells through the establishment of permanent well barriers. It provides the reader with extensive knowledge on the type of barriers, their functioning and verification. It then discusses plug and abandonment methodologies, analyzing different types of permanent plugging materials. Last, it describes some tests for verifying

the integrity and functionality of installed permanent barriers. The book offers a comprehensive reference guide to well plugging and abandonment (P & A) and well integrity testing. The book also presents new technologies that have been proposed to be used in plugging and abandoning of wells, which might be game-changing technologies, but they are still in laboratory or testing level. Given its scope, it addresses students and researchers in both academia and industry. It also provides information for engineers who work in petroleum industry and should be familiarized with P & A of hydrocarbon wells to reduce the time of P & A by considering it during well planning and construction.

Marine Engineers Review

Major Energy Companies of Europe 1989/90

a collection of essays

Springer Science & Business Media

Aquaculture Perspective of Multi- Use Sites in the Open Ocean

The Untapped Potential for Marine Resources in the Anthropocene

Springer This book is open access under a CC BY 4.0 license. This volume addresses the potential for combining large-scale marine aquaculture of macroalgae, molluscs, crustaceans, and finfish, with offshore structures, primarily those associated with energy production, such as wind turbines and oil-drilling platforms. The volume offers a comprehensive overview and includes chapters on policy, science, engineering, and economic aspects to make this concept a reality. The compilation of chapters authored by internationally recognized researchers across the globe addresses the theoretical and practical aspects of multi-use, and presents case studies of research, development, and demonstration-scale installations in the US and EU.

Submarine Hydrodynamics

Springer This book adopts a practical approach and presents recent research together with applications in real submarine design and operation. Topics covered include hydrostatics, manoeuvring, resistance and propulsion of submarines. The author briefly reviews basic concepts in ship hydrodynamics and goes on to show how they are applied to submarines, including a look at the use of physical model experiments. The issues associated with manoeuvring in both the horizontal and vertical planes are explained, and readers will discover suggested criteria for stability, along with rudder and hydroplane effectiveness. The book includes a section on appendage design which includes information on sail design, different arrangements of bow planes and alternative stern configurations. Other themes explored in this book include hydro-acoustic performance, the components of resistance and the effect of hull shape. Readers will value the author's applied experience as well as the empirical expressions that are presented for use at the preliminary design stage. A wide range of state-of-the-art material is included, and there are over fifty references to recent publications in the field. Intended for advanced students and professionals working in the specialised field of submarine hydrodynamics, this book brings theoretical and practical knowledge together in one comprehensive work that is particularly valuable to the submarine hydrodynamicist.

Ship & Boat International

Local Content Policies in Resource-rich Countries

Springer This book analyses the role of local content (LC) policy in the economic development of five resource-rich countries: Brazil, Kazakhstan, Norway, Russia and the UK. The authors situate LC policy within a framework of sustainability in the form of industrial diversification and innovation-led growth, and examine how effective LC policies are in facilitating sectoral and economy-wide catching up. Structured in five chapters, the book begins with an introduction and then presents an overview of LC definitions and situates LC policies within a framework of economic development. The third chapter compares specific examples of LC development and highlights variations in practice as well as learning across case countries. The fourth chapter focuses on macro-economic, micro-economic and institutional challenges conditioning LC development and the ability of LC policies to assist innovation-led growth. The authors conclude by examining what the future holds for LC policies and their role

in promoting economic growth and addressing the wider social, political and economic challenges in resource-rich countries.

Pattern Recognition and Image Analysis

First Iberian Conference, IbPRIA
2003 Puerto de Andratx, Mallorca,
Spain, June 4–6, 2003 Proceedings

Springer The refereed proceedings of the First Iberial Conference on Pattern Recognition and Image Analysis, IbPria 2003, held in Puerto de Andratx, Mallorca, Spain in June 2003. The 130 revised papers presented were carefully reviewed and selected from 185 full papers submitted. All current aspects of ongoing research in computer vision, image processing, pattern recognition, and speech recognition are addressed.

Ocean Pulse

A Critical Diagnosis

Springer Science & Business Media There are many conferences, workshops and meetings annually around the world, each emphasizing a specialty area for scientific exploration and research. Yet in very few instances, if at all, do the multidisciplinary aspects of science get presented so one may see the diversity of dependencies these seemingly disparate disciplines actually have. The Explorers Club and the U. S. National Park Service collaborated to make a first attempt at what will continue to be an "ocean pulse" effort; conferences combining the aquaculture sciences; the search for underwater antiquities and the marine/bio-technologies utilized to explore these areas. The purpose has been to bring together not just academicians to talk about their finding in the field or the laboratory, but to provide a forum for the practical applications of "technology" to expanding our worlds fisheries as well as to continue to explore our world's oceans; the earth's truly last frontier. After everything is said and done, we still know precious little about our ocean environments. Their influences on our lives are monumental and yet we continue to be very parochial and conservative in our dedication to exploring their depths and resources. We feel confident that this initial effort by our respective groups to awaken a realization in the public and

private sectors of the need for a cross-disciplinary approach to scientific research in the marine environment, is a necessity as we approach the 21st century. Kevin C.

Motion and Operation Planning of Robotic Systems

Background and Practical Approaches

Springer This book addresses the broad multi-disciplinary topic of robotics, and presents the basic techniques for motion and operation planning in robotics systems. Gathering contributions from experts in diverse and wide ranging fields, it offers an overview of the most recent and cutting-edge practical applications of these methodologies. It covers both theoretical and practical approaches, and elucidates the transition from theory to implementation. An extensive analysis is provided, including humanoids, manipulators, aerial robots and ground mobile robots. 'Motion and Operation Planning of Robotic Systems' addresses the following topics: *The theoretical background of robotics. *Application of motion planning techniques to manipulators, such as serial and parallel manipulators. *Mobile robots planning, including robotic applications related to aerial robots, large scale robots and traditional wheeled robots. *Motion planning for humanoid robots. An invaluable reference text for graduate students and researchers in robotics, this book is also intended for researchers studying robotics control design, user interfaces, modelling, simulation, sensors, humanoid robotics.

Intelligent Robotics and Applications

8th International Conference, ICIRA 2015, Portsmouth, UK, August 24-27, 2015, Proceedings, Part I

Springer This three volume set LNAI 9244, 9245, and 9246 constitutes the refereed proceedings of the 8th International Conference on Intelligent Robotics and Applications, ICIRA 2015, held in Portsmouth, UK, in August

2015. The 60 papers included in the first volume are organized in topical sections on analysis and control for complex systems; marine vehicles and oceanic engineering; drives and actuators' modeling; biomechatronics in bionic dexterous hand; robot actuators and sensors; intelligent visual systems; estimation and identification; and adaptive control system.

Defence Under Thatcher

Springer Drawing upon a wide range of interviews with many of the key actors, Andrew Dorman examines how defence policy was formulated and implemented during the premiership of Margaret Thatcher. This period witnessed major transformations in international and domestic politics, with defence emerging from its traditional postwar position of relative insignificance to become one of the key issues at the 1983 and 1987 general elections. Dorman provides a new understanding of policymaking by analysing defence policy in terms of three constituent parts: declaratory policy; military strategy and procurement policy.

Marine Anthropogenic Litter

Springer This book describes how man-made litter, primarily plastic, has spread into the remotest parts of the oceans and covers all aspects of this pollution problem from the impacts on wildlife and human health to socio-economic and political issues. Marine litter is a prime threat to marine wildlife, habitats and food webs worldwide. The book illustrates how advanced technologies from deep-sea research, microbiology and mathematic modelling as well as classic beach litter counts by volunteers contributed to the broad awareness of marine litter as a problem of global significance. The authors summarise more than five decades of marine litter research, which receives growing attention after the recent discovery of great oceanic garbage patches and the ubiquity of microscopic plastic particles in marine organisms and habitats. In 16 chapters, authors from all over the world have created a universal view on the diverse field of marine litter pollution, the biological impacts, dedicated research activities, and the various national and international legislative efforts to combat this environmental problem. They recommend future research directions necessary for a comprehensive understanding of this environmental issue and the development of efficient management strategies. This book addresses scientists, and it provides a solid knowledge base for policy makers, NGOs, and the broader public.

Offshore Wind Energy Cost

Modeling

Installation and Decommissioning

Springer Science & Business Media Offshore wind energy is one of the most promising and fastest growing alternative energy sources in the world. Offshore Wind Energy Cost Modeling provides a methodological framework to assess installation and decommissioning costs, and using examples from the European experience, provides a broad review of existing processes and systems used in the offshore wind industry. Offshore Wind Energy Cost Modeling provides a step-by-step guide to modeling costs over four sections. These sections cover: ·Background and introductory material, ·Installation processes and vessel requirements, ·Installation cost estimation, and ·Decommissioning methods and cost estimation. This self-contained and detailed treatment of the key principles in offshore wind development is supported throughout by visual aids and data tables. Offshore Wind Energy Cost Modeling is a key resource for anyone interested in the offshore wind industry, particularly those interested in the technical and economic aspects of installation and decommissioning. The book provides a reliable point of reference for industry practitioners and policy makers developing generalizable installation or decommissioning cost estimates.