# ADVANCES IN UNDERWATER TECHNOLOGY, OCEAN SCIENCE AND OFFSHORE ENGINEERING

#### **VOLUME 7**

# SUBSEA CONTROL AND DATA ACQUISITION

FOR OIL AND GAS PRODUCTION SYSTEMS

Society for Underwater Technology



# <u>Subsea Control And Data Acquisition For Oil And Gas</u> <u>Production Systems</u>

Jan Frick, Bjørge Timenes Laugen

#### **Subsea Control And Data Acquisition For Oil And Gas Production Systems:**

Subsea Control and Data Acquisition Society for Underwater Technology (SUT), 2010-12-15 The biennial conferences of the Society for Underwater Technology have achieved an excellent reputation for the quality of their presentations which cover topics of the most acute current interest as well as those at the forefront of review and development The 1994 conference on Subsea Control and Data Acquisition formed no exception since it covers subjects at the cutting edge of modern technology It is a matter of increasing concern that products are becoming overspecified resulting in excessive costs and longer development schedules while not conferring an equivalent benefit in reliability of the finished product Subsea Control and Data Acquisition is vital reading for all subsea control system designers manufacturers and operators equipment consultants application engineers academics in the subsea engineering field and all subsea engineers Subsea Control and Data Acquisition Society for Underwater Technology (London, England), Institution of Electrical Engineers, 1986 Control and Data Acquisition L. Adriaansen, 2004-11-19 Dealing exclusively with underwater instrumentation control and communication technology for subsea oil and gas production Subsea Control and Data Acquisition has been structured to cover relevant experience and challenges in frontier subsea developments Aimed at professionals active in subsea production systems in particular those engaged in the control and monitoring of such installations and engineers keen to keep abreast of current practice and technologies this volume covers operational experience of long offset control and monitoring as well as enhanced oil recovery and discusses relevant topics in subsea and hole monitoring such as Reliability Enhanced oil recovery Subsea and down hole monitoring Long offset control Subsea communication control Reliability of systems plays a dominant role and the effect of regional legislation is not forgotten this volume includes contributions from experienced experts from major oil companies to challenge the reader The accompanying CD can be requested from the UK Editorial team Send requests to Debbie Cox decox wiley com Subsea Control and Data Acquisition Society for Underwater Technology (SUT), 1994-04-30 The biennial conferences of the Society for Underwater Technology have achieved an excellent reputation for the quality of their presentations which cover topics of the most acute current interest as well as those at the forefront of review and development The 1994 conference on Subsea Control and Data Acquisition formed no exception since it covers subjects at the cutting edge of modern technology It is a matter of increasing concern that products are becoming overspecified resulting in excessive costs and longer development schedules while not conferring an equivalent benefit in reliability of the finished product Subsea Control and Data Acquisition is vital reading for all subsea control system designers manufacturers and operators equipment consultants application engineers academics in the subsea engineering field and all **Subsea Control and Data Acquisition** Society for Underwater Technology, 1990-03-31 The biennial subsea engineers conferences of the Society for Underwater Technology have achieved an excellent reputation for the quality of their presentations which cover topics of the most acute current interest as well as those at the forefront of review and

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the threats of terrorism and piracy to offshore oil and gas installations are major issues for energy companies and governments worldwide But how common are attacks on offshore oil and gas installations Who attacks offshore installations Why are they attacked How are they attacked How is their security regulated at the international level How has the oil industry responded This timely and first of its kind publication answers these questions and examines the protection and security of offshore oil and gas installations from a global industry wide and company level perspective Looking at attacks on offshore installations that occurred throughout history of the offshore petroleum industry it examines the different types of security threats facing offshore installations the factors that make offshore installations attractive targets the nature of attacks and the potentially devastating impacts that can result from attacks on these important facilities It then examines the international legal framework state practice and international oil and gas industry responses that aim to address this vital problem Crucially the book includes a comprehensive dataset of attacks and security incidents involving offshore oil and gas installations entitled the Offshore Installations Attack Dataset OIAD This is an indispensable reference work for oil and gas industry professionals company security officers policy makers maritime lawyers and academics worldwide Production Management Systems. Value Networks: Innovation, Technologies, and Management Jan Frick, Bjørge Timenes Laugen, 2012-09-26 This book constitutes the thoroughly refereed post conference proceedings of the International IFIP WG 5 7 Conference on Advances in Production Management Systems APMS 2011 held in Stavanger Norway in September 2011 The 66 revised and extended full papers were carefully reviewed and selected from 124 papers presented at the conference The papers are organized in 3 parts production process supply chain management and strategy They represent the breadth and complexity of topics in operations management ranging from optimization and use of technology management of organizations and networks to sustainable production and globalization The authors use a broad range of methodological approaches spanning from grounded theory and qualitative methods via a broad set of statistical methods to modeling and Revolutionizing AI and Robotics in the Oil and Gas Industry Abdullayev, Vugar, Khang, simulation techniques Alex, 2025-04-23 The oil and gas industry remains the main source of energy and is one of the valuable areas of the energy market In this sector the replacement of human labor by technology is particularly important for the implementation of all stages With the application of smart technology it was possible to replace not only the physical aspect of human labor but also a number of mental activities The integration of smart technology such as artificial intelligence AI and robotics has made it possible to automate processes such as design risk assessment forecasting ensuring safety and optimizing production Revolutionizing AI and Robotics in the Oil and Gas Industry addresses all aspects and principles of the joint integration of AI and Robotics for process automation in the oil and gas industry It discusses the modern environment created by the integration of digital technologies into this field the extent to which progress has been made with the automation of processes through AI and the consequences of the application of robotics and automation to the industry Covering topics

such as leak detection petroleum engineering and oil reservoir behavior this book is an excellent resource for industry professionals engineers computer scientists professionals researchers scholars academicians and more Society for Underwater Technology (SUT),2012-12-06 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 **Petroleum Abstracts. Literature and Patents** ,1992 Future Energy Conferences and Symposia ,1994 **Industrial Process Control: Advances and Applications** Ghodrat Kalani, 2002-10-11 This is a **Update** ,1978 comprehensive practical easy to read book on process control covering some of the most important topics in the petrochemical process industry including Fieldbus Multiphase Flow Metering and other recently developed control systems A compilation of all the best instrumentation and control techniques used in industry today Interesting theoretical content as well as practical topics on planning integration and application Includes the latest on Fieldbus Profibus and Multiphase Flow Metering Energy Research Abstracts ,1995 Intelligent Digital Oil and Gas Fields Gustavo Carvajal, Marko Maucec, Stan Cullick, 2017-12-05 Intelligent Digital Oil and Gas Fields Concepts Collaboration and Right time Decisions delivers to the reader a roadmap through the fast paced changes in the digital oil field landscape of technology in the form of new sensors well mechanics such as downhole valves data analytics and models for dealing with a barrage of data and changes in the way professionals collaborate on decisions The book introduces the new age of digital oil and gas technology and process components and provides a backdrop to the value and experience industry has achieved from these in the last few years The book then takes the reader on a journey first at a well level through instrumentation and measurement for real time data acquisition and then provides practical information on analytics on the real time data Artificial intelligence techniques provide insights from the data The road then travels to the integrated asset by detailing how companies utilize Integrated Asset Models to manage assets reservoirs within DOF context From model to practice new ways to operate smart

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