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this new edition of the standard handbook of petroleum and natural gas engineering provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering with thousands of illustrations and 1 600 information packed pages this text is a handy and valuable reference written by over a dozen leading industry experts and academics the standard handbook of petroleum and natural gas engineering provides

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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 25years 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

prevention of actuator emissions in the oil and gas industry delivers a critical reference for oil and gas engineers and managers to get up to speed on all the factors in actuator fugitive emissions packed with a selection process the benefits of switching to an electric system and the technology around open and closed loop hydraulic systems helps today s engineer understand all their options rounding with a detailed explanation around high integrity pressure protection systems hipps this book gives provides the knowledge necessary to lower emissions on today s equipment gives readers all they need to understand all the sources and key factors contributing to fugitive emissions and leakage from oil and gas actuators teaches how to select environmentally friendly actuators particularly all electric systems introduces the high integrity pressure protection system hipps and the ways it reduces flaring

subsea production systems overview of subsea engineering subsea field development subsea distribution system flow assurance and system engineering subsea structure and

equipment subsea umbilical risers and flowlines

piping and valve engineers rely on common industrial standards for selecting and maintaining valves but these standards are not specific to the subsea oil and gas industry subsea valves and actuators for the oil and gas industry delivers a needed reference to go beyond the standard to specify how to select test and maintain the right subsea oil and gas valve for the project each chapter focuses on a specific type of valve with a built in structured table on valve selection helping guide the engineer to the most efficient valve covering subsea specific protection the reference also gives information on high pressure protection systems hipps and discusses corrosion management within the subsea sector such as hydrogen induced stress cracking corrosion hisc additional benefits include understanding the concept of different safety valves in subsea selecting different valves and actuators located on subsea structures such as christmas trees manifolds and hipps modules with a full detail review including sensors logic solver and solenoid which is designed to save cost and improve the reliability in the subsea system rounding out with chapters on factory acceptance testing fat and high integrity pressure protection systems hipps subsea valves and actuators for the oil and gas industry gives subsea engineers and managers a much needed tool to better understand today s subsea technology understand practical information about all types of subsea valves and actuators with over 600 visuals and several case studies learn and review the applicable standards and specifications from api and iso in one convenient location protect your assets with a high pressure protection system hipps and subsea specific corrosion management including hydrogen induced stress cracking corrosion hisc

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