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deals with

various topics of theoretical mechanics and probability, from statics and the dynamics of a rigid body to the dynamics of a particle with one and two degrees of freedom. Many examples of varying difficulty are worked in the text and exercises are added after each major topic is covered. This book is comprised of five chapters and opens with a discussion on statics, with

particular reference to the analysis of systems of forces in three dimensions. along with virtual work, stability, and the catenary. Complicated equilibrium problems are considered. The reader is then introduced to the dynamics of a particle in one and two dimensions. as well as the implications of the Galilean transformation and the general theorems of motion for a system of particles. These

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internationally

-recognized team of natural gas industry experts, the fourth edition of Handbook of Natural Gas **Transmission** and Processing is a unique, wellresearched. and comprehensiv e work on the design and operation aspects of natural gas transmission and processing. Six new chapters have been added to include detailed discussion of the thermodynami c and energy

efficiency of relevant processes, and recent developments in treating super-rich gas, high CO2 content gas, and high nitrogen content gas with other contaminants. The new material describes technologies for processing today's unconventiona l gases, providing a fresh approach in solving today's gas processing challenges including greenhouse gas emissions.

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sources of supply and the technologies have evolved in recent vears to enable offshore infrastructure to develop and handle resources in more remote and harsher environments. It is the only book of its kind, covering the many aspects of the LNG supply chain from liquefaction to regasification by addressing the LNG industries' fundamentals and markets. as well as detailed

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in the natural gas liquefaction industries and the challenges in meeting environmental regulations **Provides** auidelines in utilizing the full potential of LNG assets Offers advices on LNG plant design and operation based on proven practices and design experience **Emphasizes** technology selection and innovation with focus on a "fit-forpurpose design Updates code and

regulation, safety, and security requirements for LNG applications Earth and **Rock-Fill Dams** Academic Press The papers recorded in this text are drawn from practical and relevant industry experience and should be useful to all those who use, design, produce, or operate rotating machinery, as well as those who supply seals.

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layout and the use of spreadsheet programs and key drawings produced by professional engineers as aids to design; subjects that are usually learned on the iob rather than in education. You will learn how to produce smarter plant design through the use of computer tools, including Excel and AutoCAD, "What If Analysis, statistical tools, and Visual Basic

for more complex problems. The book also includes a wealth of selection tables. covering the key aspects of professional plant design which engineering students and early-career engineers tend to find most challenging. Professor Moran draws on over 20 years' experience in process design to create an essential foundational book ideal for those who are

new to process design, compliant with both professional practice and the IChemE dearee accreditation auidelines. Includes new and expanded content, includina illustrative case studies and practical examples **Explains** how to deliver a process design that meets both business and safety criteria Covers plant layout and the use of spreadsheet programs and key drawings

as aids to design Includes a comprehensiv e set of selection tables. covering aspects of professional plant design which earlycareer designers find most challenging Handbook of **Natural Gas** Transmissio n and **Processing** Mechanical Engineering **Publications** Limited Millions of breasting and mooring dolphins have been installed in inland waterways

adjacent to jetties and waiting facilities for ship-to-ship transhipment or as crash barriers in commercial port areas throughout the world. A dolphin is a marine structure that is frequently installed in ports, waterways and other places related to marine traffic. Dolphins are typically located adjacent to waterfront structures such as quay walls, jetties, locks and

bridge piers. The purpose of a dolphin is threefold: Allow ships to berth and moor safely and efficiently Protect waterfront structures by acting as a crash barrier and sacrificial structure Direct and guide marine traffic by acting as a lead-in dolphin and navigation aid The main objective of this handbook is to provide engineers, asset managers, suppliers, tender teams, contractors

and principals with such guidance on the design and construction of flexible dolphins by collecting and describing knowledge of and experience with these flexible marine structures.This handbook is intended to prevent extensive discussions during the design and construction stages of projects involving flexible dolphins. It is part of a series of

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