

# Subsea Pipeline Engineering

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this handbook covers a large number of pipeline engineering topics ranging from the initial stages of designing constructing operating and managing the integrity of a pipeline to several of their fluid transportation applications such as oil gas derivatives slurry hydrogen and co2 traditional onshore and offshore pipelines are covered as well as chapters on present and future interaction with modern society this handbook serves as a first reference resource for new readers entering the field but also as a complement to those who are aware of the general principles encompassing areas of pipeline

engineering this handbook has been developed in close cooperation with abcm the  
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a comprehensive and detailed reference guide on the integrity and safety of oil and gas  
pipelines both onshore and offshore covers a wide variety of topics including design pipe  
manufacture pipeline welding human factors residual stresses mechanical damage  
fracture and corrosion protection inspection and monitoring pipeline cleaning direct  
assessment repair risk management and abandonment links modern and vintage  
practices to help integrity engineers better understand their system and apply up to date  
technology to older infrastructure includes case histories with examples of solutions to  
complex problems related to pipeline integrity includes chapters on stress based and  
strain based design the latter being a novel type of design that has only recently been  
investigated by designer firms and regulators provides information to help those who are  
responsible to establish procedures for ensuring pipeline integrity and safety

pipeline engineering has struggled to develop as a single field of study due to the wide  
range of industries and government organizations using different types of pipelines for  
all types of solids liquids and gases this fragmentation has impeded professional  
development job mobility technology transfer the diffusion of knowledge and the  
movement of manpower no single authoritative course or book has existed to unite  
practitioners in response pipeline engineering covers the essential aspects and types of

pipeline engineering in a single volume this work is divided into two parts part i pipe flows delivers an integrated treatment of all variants of pipe flow including incompressible and compressible newtonian and non newtonian slurry and multiphase flows capsule flows and pneumatic transport of solids part ii engineering considerations summarizes the equipment and methods required for successful planning design construction operation and maintenance of pipelines by addressing the fundamentals of pipeline engineering concepts theories equations and facts this groundbreaking text identifies the cornerstones of the discipline providing engineers with a springboard to success in the field it is a must read for all pipeline engineers

taking a big picture approach piping and pipeline engineering design construction maintenance integrity and repair elucidates the fundamental steps to any successful piping and pipeline engineering project whether it is routine maintenance or a new multi million dollar project the author explores the qualitative details calculations and t

flow analysis for hydrocarbon pipeline engineering gives engineers a tool to help them determine fluid dynamics the book describes hydrocarbon fluid transport in pipelines by presenting useful applied thermodynamic derivations specialized for pipelines all transport phenomena is covered such as heat momentum and mass transport moving past the fundamentals the reference addresses the complexity of these fluids and dedicates a chapter on multiphase mixtures including slugging hydrates wax and sand rounding out with practical case studies this book delivers a critical reference for engineers and flow assurance experts that will help them correlate basic fluid principles with applied engineering practices includes discussions on sustainable operations such as co2 transport in pipelines utilized in carbon capture and hydrocarbon recovery operations delivers multiple case studies for practical applications and lessons learned describes hydrocarbon fluid transport in pipelines by presenting useful applied thermodynamic derivations specialized for pipelines

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