

DEEPWATER FOUNDATIONS AND PIPELINE GEOMECHANICS

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Deepwater Foundations and Pipeline Geomechanics

WILLIAM O. MCCARRON
EDITOR IN CHIEF

Edited by William O. McCarron

The contributors to this one-of-a-kind handbook are practicing engineers and academics who have been at the forefront of offshore geotechnical development for several decades. Engineers today face concerns including submarine slope failures, thermal buckling of pipelines, catenary riser interaction with the sea-floor, vortex induced vibration of flowlines, shallow water flows encountered during drilling operations, and thermal interaction of pipelines with permafrost. **Deepwater Foundations and Pipeline Geomechanics** describes recent advances in geophysical data acquisition and evaluation as they relate to offshore developments, foundation and pipeline design considerations, and current oil field production development practices for foundations and subsea flowlines.

About the Editor-in-Chief

Bill McCarron has more than 25 years of experience in the offshore industry. He was employed by Amoco Production for 14 years, where he served in research and project engineering roles for Arctic and deepwater developments. Since founding his own consulting firm in 2001, he has specialized in the application of numerical methods to geomechanics problems.

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Key Features

- Describes deepwater foundation issues and the corresponding site investigation requirements
- Illustrates the use of integrated geophysical studies in field architecture planning, geohazard investigations, planning geotechnical investigations and foundation selection
- Introduces the application of risk analysis to foundation design with example applications
- Discusses geomaterial models and features necessary for their successful application to various foundation problems and includes illustrative examples for suction piles, flowline-soil interaction and more
- Summarizes pipeline geohazard considerations for Arctic locations
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