



Liquefaction Around Marine Structures:(With CD-ROM): 39 (Advanced Series on Ocean Engineering)

B Mutlu Sumer

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This book, whose primary aim is to describe liquefaction processes and their implications for marine structures such as pipelines, sea outfalls, quay walls and caisson breakwaters, discusses the subject of soil liquefaction in the marine environment.

In addition, the physics of liquefaction (including examples illustrating the catastrophic consequences of soil liquefaction with regard to marine structures) are described, and the mathematical modelling of liquefaction is treated in detail. Also, carefully selected numerical examples support the discussion of assessing liquefaction potential, and benchmark cases such as buried gas pipelines and their floatation, caisson breakwaters, cover stones and their interaction with liquefied soil along with counter measures are investigated.

Contents:

- Introduction and Physics of Liquefaction
- Biot Equations and Their Solutions
- Residual Liquefaction
- Momentary Liquefaction
- Floatation of Buried Pipelines
- Sinking of Pipelines and Marine Objects
- Liquefaction Under Standing Waves
- Liquefaction at Gravity Structures
- Stability of Rock Berms in Liquefied Soil
- Impact of Seismic-Induced Liquefaction
- Counter Measures

Readership: Professionals and researchers in the area of coastal, ocean and marine civil engineering; graduate and post graduate students.

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