



# Fundamentals of Marine Riser Mechanics: Basic Principles and Simplified Analysis

*Charles Sparks*

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## **Fundamentals of Marine Riser Mechanics: Basic Principles and Simplified Analysis** Charles Sparks

Charles Sparks has written the definitive work on riser behavior, which will be of permanent value to engineers confronted by riser analysis problems whether they are university students or drilling veterans with extensive experience. This book is based on the author's 28 years of experience with riser analysis and, in particular, on his previous publications, some of which have become classics of riser literature.

Basic principles governing riser behavior are presented and justified clearly. The primary parameters that influence riser behavior are identified and their influence illustrated using Excel spreadsheets provided on an accompanying CD-ROM. Readers will also be able to use these files with their own data. The spreadsheets are designed firstly to illustrate and confirm affirmations made in the text, but readers will also be able to use them to carry out their own simplified analyses.

This book is a must-own for anyone who deals with riser technology, from the classroom student to the offshore drilling platform engineer.

### **Features and Benefits:**

- Clear understanding of the principal parameters that influence riser behavior with their mode of influence.
- Clear procedures for analyzing very tricky problems such as those involving multi-barrier risers of anisotropic materials subjected to changes of fluids, pressures, and temperatures.
- Means of making rapid "ballpark" analyses before and after running sophisticated FE riser programs.
- Ability to make simplified analyses using Excel spreadsheets provided on a companion CD-ROM.

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