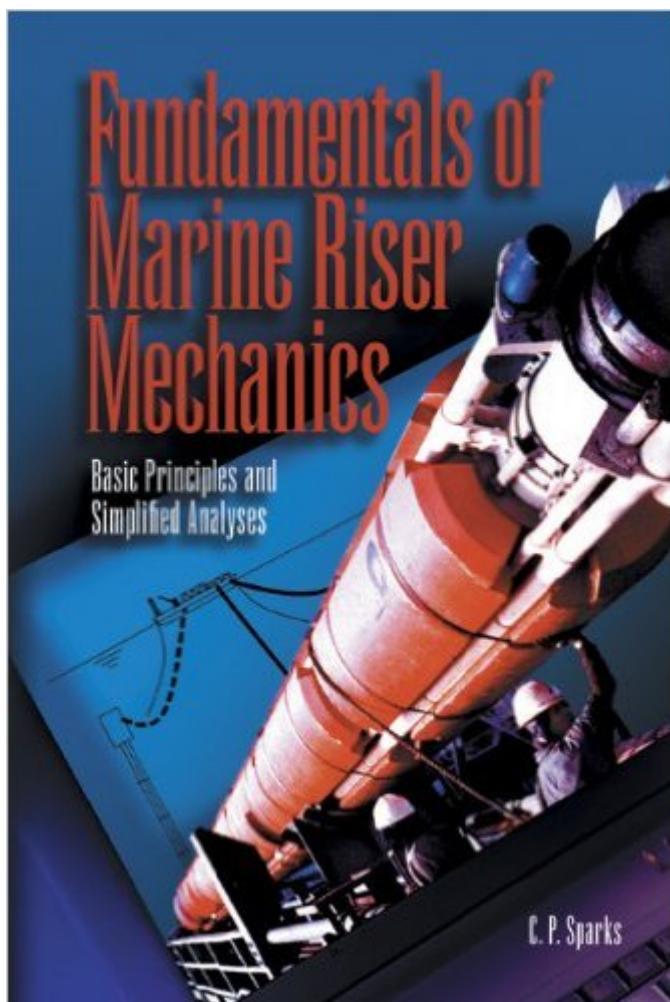


The book was found

# Fundamentals Of Marine Riser Mechanics: Basic Principles And Simplified Analysis



## Synopsis

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.

## Book Information

Hardcover: 300 pages

Publisher: PennWell Corp. (November 21, 2007)

Language: English

ISBN-10: 1593700709

ISBN-13: 978-1593700706

Product Dimensions: 9.3 x 7.1 x 1 inches

Shipping Weight: 1.1 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars See all reviews (2 customer reviews)

Best Sellers Rank: #1,306,122 in Books (See Top 100 in Books) #122 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Drilling Procedures #329 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Mining #360 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Petroleum

## Customer Reviews

I was very excited when I realized this author had written a book on subsea riser design. (Yeah, I'm a big ol' nerd.) The behavior of buoyant pipe and fluid-filled columns is often very counter-intuitive, and a massive amount of misinformation exists on the subject. This is a good reference manual for practicing subsea engineers, as well as a source for good qualitative explanations of many of the confusing aspects of riser design. It includes a CD of demonstration Excel calculators for typical riser problems. For several years, I have been accumulating academic papers on this subject and Charles Sparks' papers were the clearest and most-intuitively-explained I could find. This book is an expansion on his academic work from the past few decades, and several chapters are taken directly (with updates) from his 1984 paper on buoyant pipe mechanics. I'm very pleased with the clarity, breadth, and depth. My only complaint (and this is exceptionally nit-picky) is that I wish there was more material on well construction. The focus is on production risers, not workstrings deployed from a drilling rig such as for subsea completions/interventions. But the principles can be applied with a little modification, so it's still a very useful book. It's rare to find people with 30 years experience in subsea engineering, and even rarer for them to be proficient at both engineering and writing. Subsea engineering is still a very young discipline with extremely high financial stakes -- books like this are worth much more than their weight in gold.

I love the book, and very satisfied with the purchase at

[Download to continue reading...](#)

Fundamentals of Marine Riser Mechanics: Basic Principles and Simplified Analysis Wood Plans  
Monitor Riser Build It Yourself, With Ed's Woodworking Plans How To Series Tarot Cards  
Simplified: How To Do Accurate Tarot Card Readings Quick Start Guide (Tarot Cards Simplified Series Book 1)  
Advanced Marine Electrics and Electronics Troubleshooting: A Manual for Boatowners and Marine Technicians  
Reeds Vol 8 General Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology Series)  
Oceanography and Marine Biology: An Introduction to Marine Science  
Marine Biology for Dummies: The Best Marine Biology Colleges  
Fundamentals of Nursing: Human Health and Function (Craven, Fundamentals of Nursing: Human Health and Function)  
raven, Fundamentals of Nurs) The First 100 Chinese Characters: Simplified Character Edition: (HSK Level 1)  
The Quick and Easy Way to Learn the Basic Chinese Characters (Tuttle Language Library)  
Neuroanatomy Simplified: Some Basic Concepts for Understanding Rehabilitation Techniques  
Computational Fluid Mechanics and Heat Transfer, Third Edition (Series

in Computational and Physical Processes in Mechanics and Thermal Sciences) Reinforced Concrete: Mechanics and Design (4th Edition) (Civil Engineering and Engineering Mechanics) Robotics: The Beginner's Guide to Robotic Building, Technology, Mechanics, and Processes (Robotics, Mechanics, Technology, Robotic Building, Science) Soil Mechanics in Highway Engineering (Series on Rock and Soil Mechanics) Mechanics II: Mechanics of Materials + The Complete Works of Herbert Spencer: The Principles of Psychology, The Principles of Philosophy, First Principles and More (6 Books With Active Table of Contents) Vectors, Tensors and the Basic Equations of Fluid Mechanics (Dover Books on Mathematics) Mechanics of User Identification and Authentication: Fundamentals of Identity Management Fundamentals of Earthquake Engineering (Civil engineering and engineering mechanics series) Fundamentals of Quantum Mechanics: For Solid State Electronics and Optics

[Dmca](#)