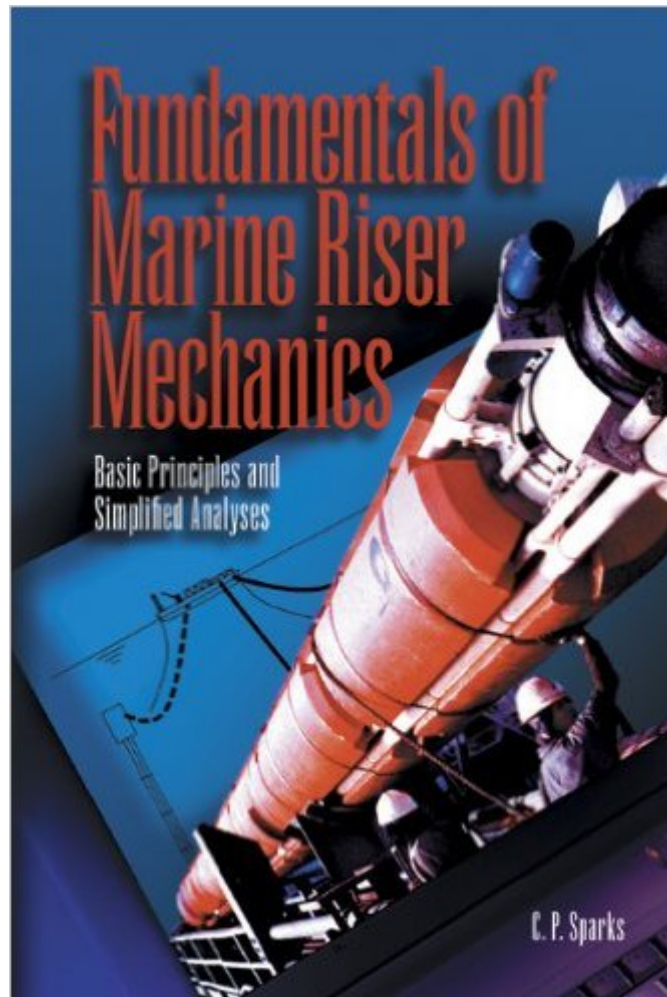


The book was found

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

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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

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