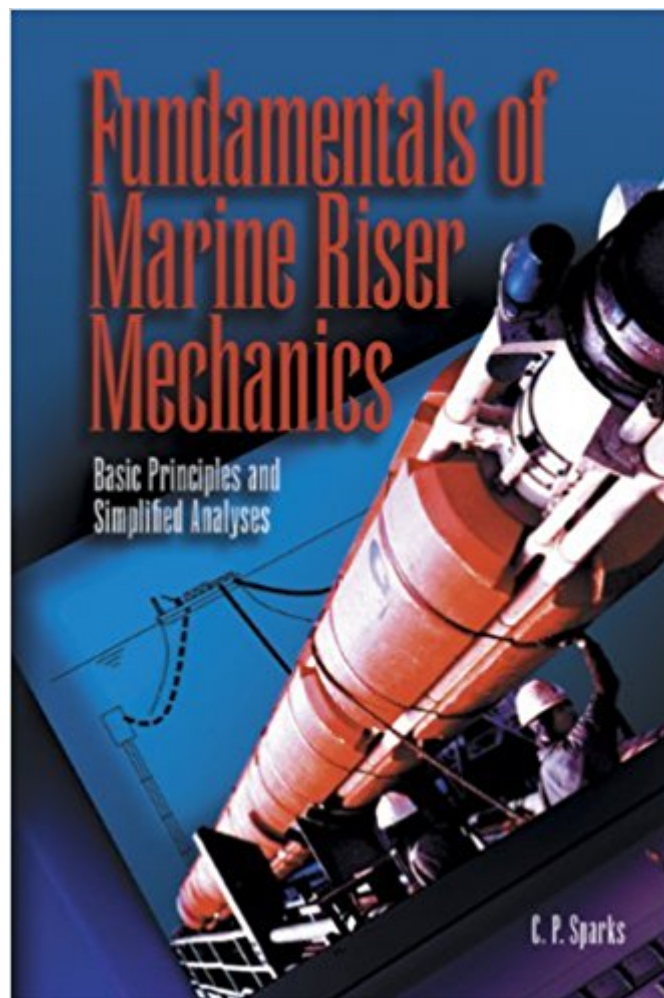




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# Fundamentals Of Marine Riser Mechanics: Basic Principles And Simplified Analyses



## Synopsis

Charles Sparks has written this definitive work on the fundamentals of riser mechanics, with the aim of increasing understanding of many aspects of riser static and dynamic behavior. 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 are clearly established using several different complementary approaches. The primary parameters that influence riser behavior are identified, and their influence is illustrated using 17 Excel files, provided on an accompanying CD-ROM, which readers are able to use with their own data. The files are intended primarily to allow readers to confirm the validity of statements made in the text, but they can also be used to for the simplified analysis of particular riser problems. This book is a must-own, for anyone who deals with riser design and analysis or with riser technology, from the classroom student to the offshore drilling platform engineer.

## 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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