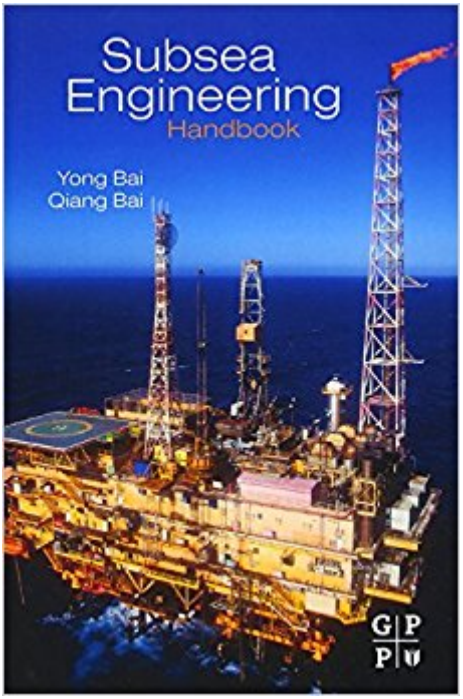
# Subsea Engineering Handbook



## Synopsis

Designing and building structures that will withstand the unique challenges that exist in Subsea operations is no easy task. As deepwater wells are drilled to greater depths, engineers are confronted with a new set problems such as water depth, weather conditions, ocean currents, equipment reliability, and well accessibility, to name just a few. A definitive reference for engineers designing, analyzing and instilling offshore structures, Subsea Structural Engineering Handbook provides an expert guide to the key processes, technologies and equipment that comprise contemporary offshore structures.Written in a clear and easy to understand language, the book is based on the authors 30 years of experience in the design, analysis and instillation of offshore structures. This book answers the above mentioned crucial questions as well as covers the entire spectrum of subjects in the discipline, from route selection and planning to design, construction, installation, materials and corrosion, inspection, welding, repair, risk assessment, and applicable design solutions. It yields a roadmap not only for the subsea engineer but also the project managers, estimators and regulatory personnel hoping to gain an appreciation of the overall issues and directed approaches to subsea engineering design solutions.Up-to-date technical overview of deepwater riser engineeringEasy to understand Coverage of design, analysis and, stallationAddresses issues concerning both fixed and floating platformsCovers techincal equipment such as Subsea Control Systems, Pressure Piping, Connectors and EquipmentLayout as well as Remotely-operated vehicles

## Book Information

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## Customer Reviews

"Combined, the two authors have had long careers with major international firms and with academic institutions in the US, Japan, and Norway. They have prepared this book for aspiring subsea engineers, a discipline described in the preface as involving the "design, analysis, construction, installation and integrity management of subsea wellheads, trees, manifolds, jumpers PLETS and PLEMs...." Coverage is logically organized, beginning with subsea production systems (field development, distribution, surveying, positioning, and foundation, cost estimation, power supply, and risk & reliability, among other topics). Subsequent coverage includes flow assurance and system engineering; structures and equipment; and umbilical, risers & flowlines. With the Gulf oil spill, the world saw the consequences of poor engineering and management; this text is important for the thorough education of future practitioners." --Book News, Reference & Research

Dr. Yong Bai obtained a Ph.D. in Offshore Structures at Hiroshima University, Japan in 1989. He is currently President of Offshore Pipelines and Risers (OPR Inc., a design/consulting firm in the field of subsea pipelines, risers and floating systems. In the 1990’s, he had been a technical leader for several Asgard Transport pipeline and flowline projects at JP Kenny as Manager of the advanced engineering department. Yong was previously a lead riser engineer at Shell and assisted in offshore rules development at the American Bureau of Shipping (ABS) as Manager of the offshore technology department. While a professor, he wrote several books and served as a course leader on the design of subsea pipelines and irsers as well as design of floating systems. He also serves at Zhejiang University in China as professor.Dr. Qiang Bai obtained a doctorate for Mechanical Engineering at Kyushu University, Japan in 1995. He has more than 20 years of experience in subsea/offshore engineering including research and engineering execution. He has worked at Kyushu University in Japan, UCLA, OPE, JP Kenny, and Technip. His experience includes various aspects of flow assurance and the design and installation of subsea structures, pipelines and riser systems.

I haven’t come across a better book on Subsea Engineering before this one.With its beautifully structured contents and simplified explanation of the Subsea technology in-depth , it will forma great guide for anyone in the field of Subsea engineering.It will be equally useful for both experienced and new subsea professionals.I can totally recommend this book. Its a bit expensive but its worth it !

The transaction was perfect. I expected a little more depth and better illustrations for an Engineering Book.Frankly, not too impressed with the book but find it necessary to be in my working library to keep abreast on what others think is important.

Good contents but the print quality is poor. I had expected a good quality print with rich colour images, what i recieved was a black and white only version with some images un-readable. Very disappointed after paying so much.

Great book, very well detailed and helped me loads in my day to day job

the book itself is great and very useful as a everyday reference. However, for $169 I would expect better quality print. I bought mine in April 2012. Maybe since then the new edition came out with better print quality. Mine is terrible!

This book covers a wide range of subjects within the subsea discipline. It does not provide the intricate details that some may be looking for but it gives a very good overall view of subsea engineering as a whole.

This handbook contains a lot of key information which helped me significantly in my graduate subsea control systems course. A lot of detail is given about subsea system components, production, and design. Highly recommend this book.

A very complete cover, but strictly superficial.

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