



# Subsea Pipeline Design, Analysis, and Installation

By Qiang Bai, Yong Bai



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As deepwater wells are drilled to greater depths, pipeline engineers and designers are confronted with new problems such as water depth, weather conditions, ocean currents, equipment reliability, and well accessibility. *Subsea Pipeline Design, Analysis and Installation* is based on the authors' 30 years of experience in offshore. The authors provide rigorous coverage of the entire spectrum of subjects in the discipline, from pipe installation and routing selection and planning to design, construction, and installation of pipelines in some of the harshest underwater environments around the world. All-inclusive, this must-have handbook covers the latest breakthroughs in subjects such as corrosion prevention, pipeline inspection, and welding, while offering an easy-to-understand guide to new design codes currently followed in the United States, United Kingdom, Norway, and other countries.

- Gain expert coverage of international design codes
- Understand how to design pipelines and risers for today's deepwater oil and gas
- Master critical equipment such as subsea control systems and pressure piping

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### **Editorial Review**

#### **About the Author**

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.

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 risers as well as design of floating systems. He also serves at Zhejiang University in China as professor.

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