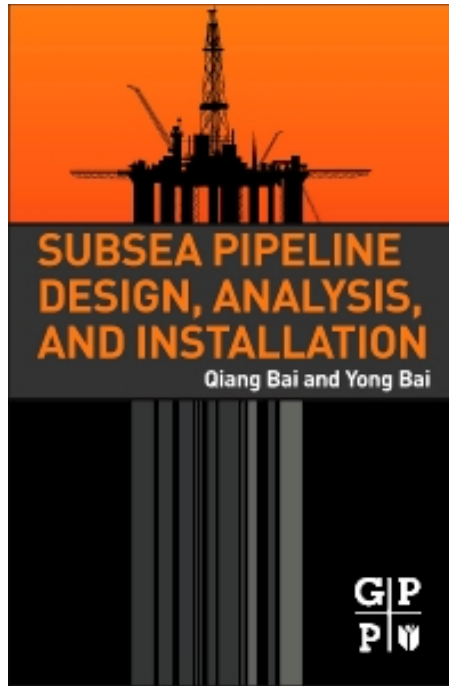




Professor Yong Bai



Qiang Bai and Yong Bai, Subsea Pipeline Design, Analysis, and Installation, Gulf Professional Engineering, 2014, 824 pages

See:

http://www.ccea.zju.edu.cn/english/redir.php?catalog_id=24787&object_id=29296

http://www.fe.zju.edu.cn/english/redir.php?catalog_id=6585&object_id=7004

<http://www.academicpub.org/asoe/file/Yong%20Bai.pdf>

http://store.elsevier.com/Yong-Bai/ELS_1015525/

College of Civil Engineering and Architecture
Zhejiang University, Hangzhou, China

Biography:

Professor Yong Bai, male, born in May 1963 and an origin of Linchuan in Wuzhou of Jiangxi Province, is a doctoral tutor and is one of the talents introduced by “Hundred Talent Project” in Zhejiang Province. Prof. Yong Bai has Norwegian nationality and obtained doctor’s degree for offshore structure in Hiroshima University, Japan in 1989. He has been dedicated to teaching and scientific research of ship and ocean engineering in Technical University of Denmark, Norwegian University of Science and Technology and University of California, Berkeley successively and has published more than 100 papers, four monographs in English and one work of co-authorship in Chinese.

Prof. Yong Bai has been in charge of projects on design, analysis and risk assessment of structure, subsea pipeline/ risers and offshore platform structure of dozens of large-scale ships. He put forward theory on designed buckling strength and ultimate bearing capacity of deepwater subsea pipelines, which radically improved design method, analysis method and designed allowable standards for subsea pipelines to an international advanced level. The theories are widely applied in engineering practice and enjoy a high reputation among the trade.

Yong Bai has been engaged in project management at Det Norske Veritas, American Bureau of Shipping, Norway JP Kenny, U.S. Shell Oil Company and U.S. MCS successively and has accumulated rich engineering experience and developed high operation capability. He mainly dealt with offshore oil engineering works, including subsea oil pipeline, ocean engineering machinery and underwater drilling equipments.

Prof. Yong Bai worked as visiting professor and doctoral tutor in Harbin Engineering University in September 2005; he was employed as professor and doctoral tutor by College of Civil Engineering and Architecture, Zhejiang University in January 2010.

Dr. Bai is the author of four books "Pipelines and Risers", "Marine Structural Design", "Subsea Pipelines and Risers" and "Subsea Engineering Handbook" published by Elsevier Science in 2001, 2003, 2005 and 2010 respectively, and "Subsea Pipeline Design, Analysis, and Installation", published by Gulf Professional Engineering in 2014. In March 2000, he was given the best paper award by ASME/OMAE conference held in New Orleans.

Academic Experience:

- 1978.9-1982.7, Harbin Shipbuilding Engineering Institute, Bachelor's Degree
- 1982.9-1983.7 Shanghai Jiaotong University, Master's Degree
- 1983.9-1986.4 Japan Hiroshima University, Master's Degree
- 1983.9-1983.7 Japan Hiroshima University, doctorate study, Doctor's Degree
- 1990 Technical University of Denmark, Post-doctoral
- 1992 Norwegian University of Science and Technology, Post-doctoral
- 1994 University of California, Berkeley, Post-doctoral

Work Experience:

- 1989.4-1990.6 Technology Dept. of Osaka Century Research Center, Japan, Project manager/ structural engineer
- 1990.6-1991.7 Ocean Engineering Dept., Technical University of Denmark, senior structure analysis engineer
- 1991.8-1992.6 Marine Structure Dept. of Norwegian University of Science and Technology, NTNF/NFR, post doctoral researcher
- 1992.7-1996.2 Det Norske Veritas (DNV), senior engineer
- 1996.3-1999.12 Advanced Engineering Dept., Norway JP Kenny, manager of Marine Engineering Sector
- 1998.9-2001.6 Ocean Engineering Specialty, Department of Civil Engineering of Norway Stavanger University, professor
- 1999.12-2001.12 Marine Technology Dept. of American Bureau of Shipping (ABS), department manager
- 2002.1-2003.4 Shell Oil Company, Project Manger
- 2003.4-2005.6 U.S. MCS Corp., Vice President of Engineering Project
- 2005.5-2006.4 U.S. GAE Corp. President
- 2006.5-2006.10 Yantai Raffles Shipyard, Technology Vice President and Chief Engineer
- 2005.5- Offshore Pipelines & Risers (OPR) Inc President
- 2005.9- Visiting professor / doctoral tutor of Harbin Engineering University
- 2010.1- Professor/ doctoral tutor of College of Civil Engineering and Architecture, Zhejiang University

Research Interests:

Offshore pipeline and riser; Ocean engineering structure; Project risk analysis and safety evaluation; Composite Material tube; Offshore oil underwater production system

Selected Publications:

BOOK: Qiang Bai and Yong Bai, Subsea Pipeline Design, Analysis, and Installation, Gulf Professional Engineering, 2014, 824 pages

Journal/Conference Articles:

- S. Gong, B. Sun, S. Bao and Y. Bai, Buckle propagation of offshore pipelines under external pressure, *Marine Struct.*, 29 (2012) 115–130.
- D. Wei, Y. Bai and G. Feng: “Global Analysis of Ultra-Deepwater Drilling Risers”, Proc. of the ASME 28th International Conference on Ocean, Offshore and Arctic Engineering. USA, 2009.OMAE2009-79912. (EI)
- H.H. Sun and Y. Bai: "Time-variant Reliability Assessment of FPSO Hull Girders", *Journal of Marine Structures*, Vol. 16, pp.219-253, 2003. (SCI, EI)
- P.K. Das, A. Thavalingam, and Y. Bai. Buckling and ultimate strength criteria of stiffened shells under combined loading for reliability analysis. *Thin-Walled Structures*, 41:69–88, 2003
- P.K. Das, A. Thavalingam, S. Hauch and Y. Bai: "A New Look Into the Buckling and Ultimate Strength Criteria of Stiffened Shells for Reliability Analysis", OMAE'01. (EI)
- Y. Bai and S. Hauch: "Collapse Capacity of Corroded Pipes under Combined Pressure, Longitudinal Force and Bending", *Journal of ISOPE*, March 2001. (EI)
- H.H. Sun and Y. Bai: "Time-variant Reliability of FPSO Hulls", *SNAME Transactions*, 2001. (SCI,EI)
- J. Willcocks and Y. Bai: "Risk Based Inspection and Integrity Management of Pipeline Systems", *ISOPE'2000*. (EI)
- Y. Bai, G. Knauf and H.G. Hillenbrand: "Materials and Design of High Strength Pipelines", *ISOPE'2000*. (EI)
- Bai, Y. and Sørheim, M.: “Risk Analysis Applied to Pipeline Engineering”, Proc. of OMAE’99. (EI)
- Hauch, S. and Bai, Y.: “Bending Moment Capacity of Pipes”, Proc. of OMAE’98. (EI)
- Bai, Y. and Damsleth, P.A.: “Installation Design of Deepwater Pipelines”, Proc. of OMAE’99. (EI)
- Bai, Y., Hauch, S. and Jensen, C.J.: “Local Buckling and Plastic Collapse of Corroded Pipes with Yield Anisotropy”, Proc. of ISOPE’99. (EI)
- Ose, B.A., Bai, Y., Nystrøm, P.R. and Damsleth, P.A: “A Finite Element Model for In-situ behaviour of Offshore Pipelines on Uneven Seabed and Its Application to On-bottom Stability”, Proc. of ISOPE’99. (EI)
- Bai, Y. and Damsleth, P.A: “Design Through Analysis Applying Limit-state Concepts and Reliability Methods”, Planery paper of ISOPE ’98. (EI)
- Song, R., Tjelta, E. and Bai, Y.: “Reliability-based Tubular Joint Design”, Proc. of ISOPE’98. (EI)
- Hauch, S., Bai, Y.: “Use of Finite Element Methods for Local Buckling Design”, Proc. of OMAE ’98. (EI)
- Bai, Y. and Hauch, S.: “Analytical Collapse Capacity of Corroded Pipes,” Proc. of ISOPE’98. (EI)
- Nystrøm, K. Tørnes, Y. Bai and P. Damsleth: “Dynamic Buckling and Cyclic Behaviour of HP/HT Flowlines”, Proc. of ISOPE’97. (EI)
- Y. Bai, T. Xu and R. Bea: “Reliability - based Design & Regualitication criteria for Longitudinally Corroded Pipelines”, Proc. of the 7th International Offshore and Polar Engineering Conference (ISOPE ’97), May 1997.(To appear at Int. J. ISOPE) (SCI, EI)
- Y. Bai and P. A. Damsleth: “Limit-state Based Design of Offshore Pipelines”, Proc. of OMAE ’97. (EI)
- Y. Bai, E. Moe and K. Mørk: “ProbabilisticAssessment of Dented and Corroded Pipelines”, Proc. of the 4th International Offshore and Polar Engineering Conference (ISOPE ’94), Osaka, April 1994. (EI)
- Y. Bai, R. Iglan and T. Moan: “Factors Affecting Tube Collapse Simultaneously subjected to Combined Pressure, Tension and Bending”, *International Journal of Marine Structures*, Vol. 10, June 1997. (SCI, EI)
- Y. Bai, R. Iglan and T. Moan: “Ultimate Limit States for Pipes under Combined Tension and Bending”, Proc. of the 3rd International Offshore and Polar Engineering Conference (ISPOE ’93), Singapore, June 1993. *International Journal of Offshore and Polar Engineering*, pp. 312-319, 1994. (SCI, EI)
- Y. Bai, R. Iglan and T. Moan: “Collapse of Thick Tubes under Combined Tension and Bending”, *Journal of Constructional Steel Research*, pp. 233-257, 1995. (SCI)

- Y. Bai, R. Igland and T. Moan: "Tube Collapse under Combined Pressure, Tension and Bending", International Journal of Offshore and Polar Engineering, Vol. 3(2), pp. 121-129, 1993. (SCI, EI)
- Bai, R., Igland and T. Moan: "Collapse of Thick Tubes under Pressure, Tension, Bending and Their Combinations", Proc. of the 2nd International Offshore and Polar Engineering Conference (ISOPE '92), San Francisco, June 1992. (SCI, EI)
- Y. Bai, E. Bendiksen and P.T. Pedersen: "Collapse Analysis of Ship Hulls", Journal of Marine Structures, Vol. 6, pp. 485-507, 1993. (SCI, EI)
- Y. Bai and P.T. Pedersen: "Elastic-plastic Behaviour of Offshore Steel Structures under Impact Loads", International Journal of Impact Engineering, Vol.13 (1), pp. 99-115, 1993. (SCI, EI)
- Y. Bai and P.T. Pedersen: "Earthquake Response of Offshore Structures", Proc. of the 10th International Conference of Offshore Mechanics and Arctic Engineering (OMAE '91), Stavanger, June. (EI)
- T. Yao, M. Fujikubo, Y. Bai, T. Nawata and M. Tamehiro: "Local Buckling of Bracing Members in Semi-submersible Drilling Unit (2nd report)", Journal of the Society of Naval Architects of Japan, Vol. 164, pp. 447-455, 1988 (in Japanese). (EI)
- T. Yao, M. Fujikubo, Y. Bai, T. Nawata and M. Tamehiro: "Local Buckling of Bracing Members in Semi-submersible Drilling Unit (1st report)", Journal of the Society of Naval Architects of Japan, Vol.160, pp. 359-371, 1986 (in Japanese). (EI)
- T. Yao, M. Fujikubo, Y. Bai and S. Nakagawa: "Load Carrying Capacity of Damaged Tubular Members", Transaction of the West Japan Society of Naval Architects, Vol.73, pp. 136-150, 1987. (EI)