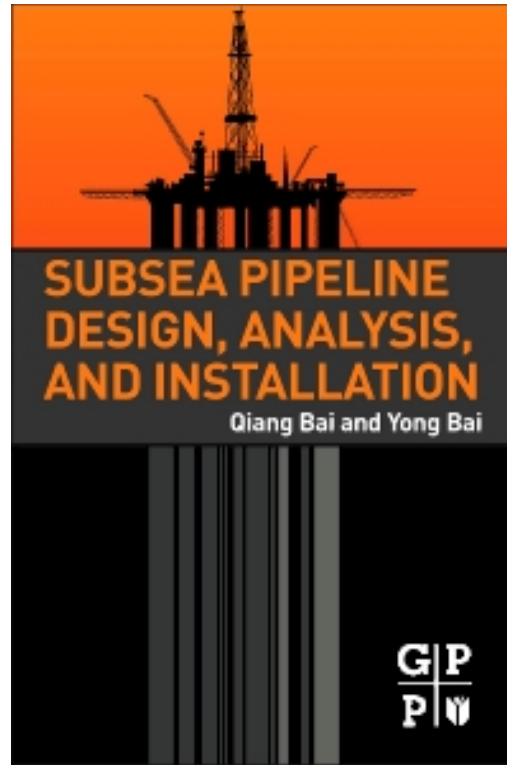




Professor Bai Yong (Y. Bai)



See:

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

http://www.goodreads.com/author/show/1437171.Yong_Bai

College of Civil Engineering and Architecture
Zhejiang University, 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.

Study 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

Research Interests:

Offshore pipelines and risers, Ocean engineering structures, Project risk analysis and safety evaluation, Composite Material tubes, Offshore oil underwater production systems

Selected Publications:

Books:

Yong Bai, Marine Structural Design, Elsevier Science, August 2003, 626 pages
Yong Bai and Qiang Bai (editors), Subsea Pipelines and Risers, Elsevier Science and Technology, 2005
Qiang Bai and Yong Bai, Subsea Pipeline Design, Analysis, and Installation, Gulf Professional Engineering, 2014, 824 pages

Journal Articles, etc.:

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)
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
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)
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
Y. Bai, E. Bendiksen and P.T. Pedersen: "Collapse Analysis of Ship Hulls", Journal of Marine Structures, Vol. 6, pp. 485-507, 1993.
Y. Bai, E. Moe and K. Mørk: "Probabilistic Assessment of Dented and Corroded Pipelines", Proc. of the 4th International Offshore and Polar Engineering Conference (ISOPE '94), Osaka, April 1994
Yong Bai, Ragnar T. Igland and Torgeir Moan, "Tube collapse under combined external pressure, tension and bending", Marine Structures, Vol. 10, No. 5, June 1997, pp. 389-410
Nystrøm, K. Tørnes, Y. Bai and P. Damsleth: "Dynamic Buckling and Cyclic Behaviour of HP/HT Flowlines",

Proc. of ISOPE'97, 1997

Hauch, S., Bai, Y.: "Use of Finite Element Methods for Local Buckling Design", Proc. of OMAE '98, 1998

Hauch, S. and Bai, Y.: "Bending Moment Capacity of Pipes", Proc. of OMAE'98, 1998

Bai, Y. and Hauch, S.: "Analytical Collapse Capacity of Corroded Pipes," Proc. of ISOPE'98, 1998

Bai, Y., Hauch, S. and Jensen, C.J.: "Local Buckling and Plastic Collapse of Corroded Pipes with Yield Anisotropy", Proc. of ISOPE'99, 1999

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, 1999

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, 2001

Y. Bai and S. Hauch: "Collapse Capacity of Corroded Pipes under Combined Pressure, Longitudinal Force and Bending", Journal of ISOPE, March 2001

Yong Bai and Qiang Bai (editors), "Chapter 7: Finite Element Analysis of In-Situ Behavior", From Subsea Pipelines and Risers (2005)

Shun-feng Gong, Xing-yue Ni, Sheng Bao and Yong Bai, "Asymmetric collapse of offshore pipelines under external pressure", Ships and Offshore Structures, Vol. 8, No. 2, pp 176-188, 2013

Yong Bai, Weidong Ruan, Peng Cheng, Binbin Yu and Weiping Xu, "Buckling of reinforced thermoplastic pipe (RTP) under combined bending and tension", Journal of Ships and Offshore Structures, Vol. 9, No. 5, pp 525-539, 2014

Shun-feng Gong, Qing Hu, Sheng Bao and Yong Bai, "Asymmetric buckling of offshore pipelines under combined tension, bending and external pressure", Journal of Ships and Offshore Structures, Vol. 10, No. 2, pp 162-175, 2015

Yong Bai, Nuosi Wang, Peng Cheng, Hongdong Qiao and Binbin Yu, "Collapse and buckling behaviors of reinforced thermoplastic pipe under external pressure", ASME Journal of Offshore Mechanics and Arctic Engineering, Vol. 137, No. 4, 041401, August 2015