



# Ship-Shaped Offshore Installations: Design, Building, and Operation

By Jeom Kee Paik, Anil Kumar Thayamballi

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Ship-shaped offshore units are some of the more economical systems for the development of offshore oil and gas, and are often preferred in marginal fields. These systems are especially attractive to develop oil and gas fields in deep and ultra-deep water areas and remote locations away from existing pipeline infrastructures. Recently, the ship-shaped offshore units have been applied to near shore oil and gas terminals. This 2007 text is an ideal reference on the technologies for design, building and operation of ship-shaped offshore units, within inevitable space requirements. The book includes a range of topics, from the initial contracting strategy to decommissioning and the removal of the units concerned. Coverage includes both fundamental theory and principles of the individual technologies. This book will be useful to students who will be approaching the subject for the first time as well as designers working on the engineering for ship-shaped offshore installations.

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### **Editorial Review**

#### Review

Review of the hardback: '... offers many new ideas in offshore engineering and technology, which could be used to enhance design and operation of maritime systems. ... beneficial for both academic researchers and industrial analysts. It serves as a good reference for marine/offshore safety engineers within the industry and as an excellent textbook by undergraduates or postgraduates in marine/offshore engineering subjects. There are several useful sections that briefly introduce the reader to the ship-shaped offshore installations and set the mood by defining the general design and building regimes. For more advanced readers, the technical chapters plunge deep into the root of problems of designing, building and operating ship-shaped offshore installations.' Measurement + Control

Review of the hardback: 'Ship-shaped Offshore Installations is an excellent text and reference book written by recognised marine structural experts who are long-standing members of SNAME. ... This book is very timely and sure to become a must-have for professionals involved in offshore work. ... [It] is highly recommended and bridges existing gaps in the published works on FPSs. My thanks to the authors for writing a well documented, authoritative book on this complex subject.' SNAME News Gautam J. Adhia

Review of the hardback: 'The book presents an excellent opportunity for engineers and students alike, to appreciate the issues surrounding design, building and operation of ship-shaped offshore installations. It offers many new ideas in offshore engineering and technology, which could be used to enhance design and operation of maritime systems.' Measurement + Control

#### About the Author

Jeom Kee Paik is Professor of Ship Structural Mechanics at Pusan National University, Korea and an internationally acclaimed authority on limit states design and assessment of ships and offshore structures. Prof. Paik has been a member of the working group for development of ISO Code 18072 on ships and marine technology and Chairman of the ISSC (International Ship and Offshore Structures Congress) committees on condition assessment of aged ships, and on ship collisions and grounding. Dr Paik is Editor-in-Chief of an international journal, Ships & Offshore Structures (SAOS). He is a Fellow, Council member, Korean branch chairman and a Publication Committee member of the Royal Institution of Naval Architects (RINA), UK, and a member of Technical & Research Steering Committee of the Society of Naval Architects and Marine Engineers (SNAME), USA. Prof. Paik is the co-author of Ultimate Limit State Design of Steel-Plated Structures. Prof. Paik is the author or coauthor of over 500 publications in refereed journals, conference proceedings and research reports and several book chapters. Anil K. Thayamballi is senior staff consultant and engineering advisor with the Marine Services Group of Chevron Shipping Company in San Ramon, California. He is a specialist in marine structural design and life cycle care, with some 25 years of broad ranging experience in ship-shaped structures. He has served on the ASCE (American Society of Civil Engineers) Committee for Fatigue and Fracture Reliability, the American Petroleum Institute Resource Group RG-4 on Structural Element behavior, and on the ISSC Technical Committee on Design Procedures and Philosophy, including as its Chairman. He recently completed a term as Work Group Chairman for the Tanker Structure Co-operative Forum, and continues to be involved in the Forum activities. He currently serves on the Marine Technology committee of the Society of Naval Architects and Marine Engineers (SNAME) in New York. Dr Thayamballi is also a member-at-large of the Structural Stability Research Council, and a member of the Royal Institution of Naval Architects. Dr Thayamballi is the author or co-author of over 60 refereed technical publications and Ultimate Limit State Design of Steel-Plated Structures.

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