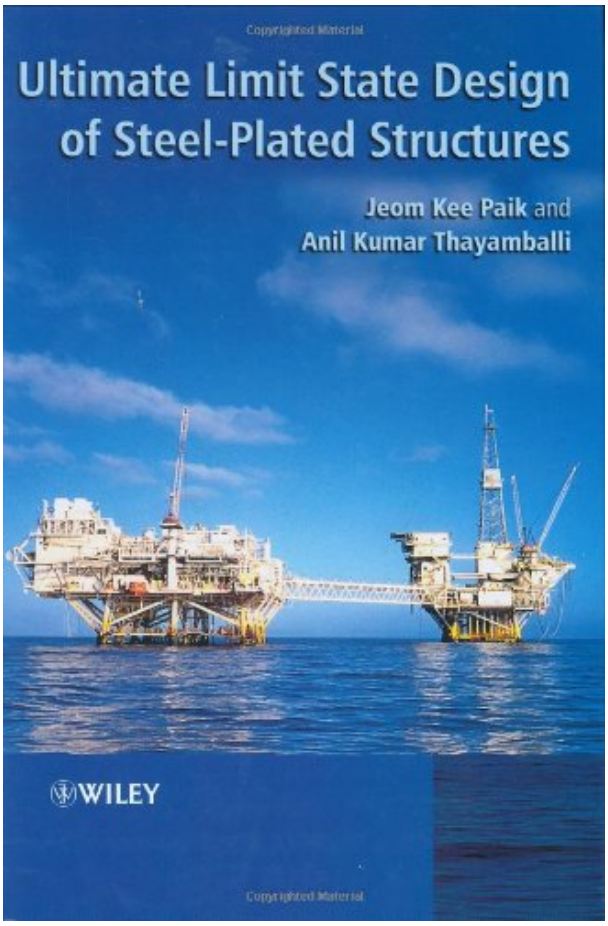
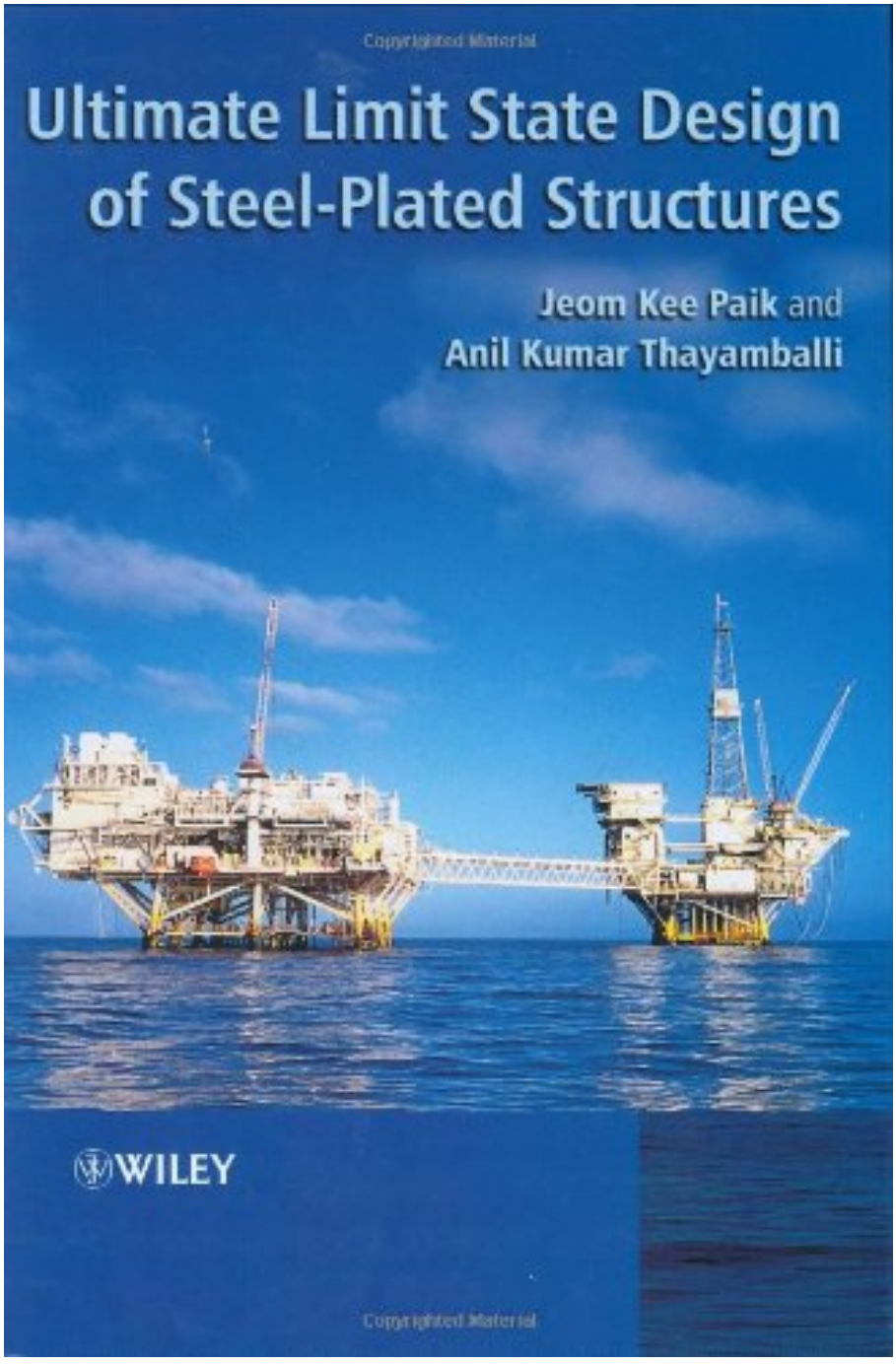
ULTIMATE LIMIT STATE DESIGN OF STEEL-PLATED STRUCTURES BY JEOM KEE PAIK, ANIL KUMAR THAYAMBALLI





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From the Back Cover
Steel plated structures are important in a variety of marine and land-based applications, including ships, offshore platforms, power and chemical plants, box girder bridges and box girder cranes. The basic strength members in steel plated structures include support members (such as stiffeners and plate girders), plates, stiffened panels/grillages and box girders. During their lifetime, the structures constructed using these members are subjected to various types of loading which is for the most part operational, but may in some cases be extreme or even accidental.

Ultimate Limit State Design of Steel Plated Structures reviews and describes both fundamentals and practical design procedures in this field. The derivation of the basic mathematical expressions is presented together with a thorough discussion of the assumptions and the validity of the underlying expressions and solution methods.

Particularly valuable coverage in the book includes:

- serviceability and the ultimate limit state design of steel structural systems and their components
- the progressive collapse and the design of damage tolerant structures in the context of marine accidents
- age related structural degradation such as corrosion and fatigue cracks

Furthermore, this book is also an easily accessed design tool which facilitates learning by applying the concepts of the limit states for practice using a set of computer programs which can be downloaded. In addition, expert guidance on mechanical model test results as well as nonlinear finite element solutions, sophisticated design methodologies useful for practitioners in industries or research institutions, selected methods for accurate and efficient analyses of nonlinear behavior of steel plated structures both up to and after the ultimate strength is reached, is provided.

Designed as both a textbook and a handy reference, the book is well suited to teachers and university students who are approaching the limit state design technology of steel plated structures for the first time.

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Most helpful customer reviews

3 of 3 people found the following review helpful.
Only a textbook and handy source for ULS methods
By A Customer
I think that this book is only a textbook and handy source in the world regarding principles of limit state design methodologies for steel plated structures with the focus on ULS (ultimate limit states). This book provides an elaborate description for theoretical background and derivations of ULS design formulations and methods which are supposed to be the most advanced and sophisticated. While some softwares developed by the authors can be downloaded from the internet web site, the readers themselves can of course easily develop their own programs based on the methods and design formulae presented in the textbook.

4 of 7 people found the following review helpful.
Ultimate limit state design of steel-plated structures
By A Customer
During the last two decades the emphasis in design for steel structures has been moving from the allowable stress design to the limit state design. This book provides an insight into a wider spectrum of limit state design considerations in both an academic and a practical sense. It is very well siuted to university students who study the limit state design technology. Since the book presents advanced and sophisticated design methodologies for limit states, it also meets the needs of structural designers or researchers who are involved in the field of naval architecture, offshore, civil, architectural and mechanical engineering.

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