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Structural Load Modeling And Combination For Performance And Safety Evaluation (Developments In Civil Engineering)





Synopsis

Engineers traditionally base their designs on past experience; this is particularly true in the building and construction industry. In recent decades, however, as the design is increasingly required for systems in environments where there is very little experience to rely on, e.g. nuclear structures, offshore platforms, and space stations, the uncertainty that the engineer faces becomes an important issue and requires serious study. As the uncertainty in the structural loading in general plays a dominant role, in the last decade there has been a rapid increase in the study of the modeling and risk evaluation of loadings on structural systems, in particular, the problem of risk under multiple loads over the structure's lifetime. Methodologies based on probability and statistics theories have been developed to quantify the uncertainty and, as a result, engineers are now better equipped to face the challenge of design under uncertainty. This book provides an account of the development thus far in this area and can be understood by readers with only a basic background in probability and statistics.

Book Information

Series: Developments in Civil Engineering Hardcover: 227 pages Publisher: Elsevier Science Ltd (April 1990) Language: English ISBN-10: 0444881484 ISBN-13: 978-0444881489 Product Dimensions: 0.8 x 6.8 x 10 inches Shipping Weight: 1.4 pounds Average Customer Review: Be the first to review this item Best Sellers Rank: #3,307,435 in Books (See Top 100 in Books) #136 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural Dynamics #1715 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural #2748 in Books > Textbooks > Engineering > Civil Engineering

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