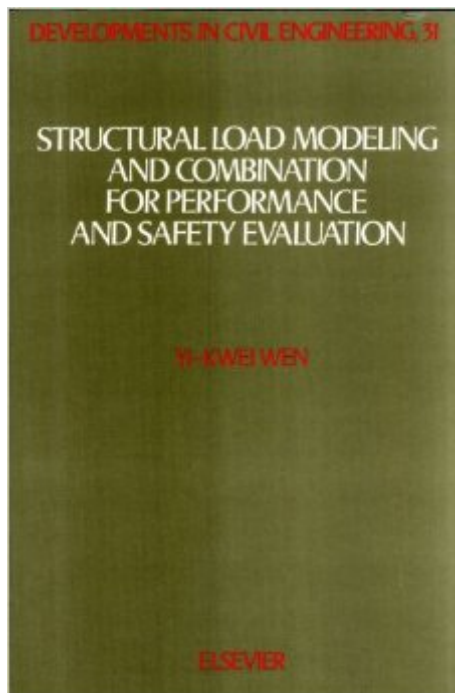


The book was found

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

[Download to continue reading...](#)

Structural Load Modeling and Combination for Performance and Safety Evaluation (Developments in Civil Engineering) Matrix Analysis of Structural Dynamics: Applications and Earthquake Engineering (Civil and Environmental Engineering) Earthquake Engineering: Damage Assessment and Structural Design (Methods & Applications in Civil Engineering) Structural Dynamics by Finite

Elements (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) IEC 61511-3 Ed. 1.0 b:2004, Functional safety - Safety instrumented systems for the process industry sector - Part 3: Guidance for the determination of the required safety integrity levels New methods and recent developments of the stereochemistry of ephedrine, pyrrolizidine, granatane and tropane alkaloids, (Recent developments in the chemistry of natural carbon compounds) Practice Problems for the Civil Engineering PE Exam: A Companion to the Civil Engineering Reference Manual, 14th Ed Practice Problems for the Civil Engineering PE Exam: A Companion to the Civil Engineering Reference Manual, 13th Ed Practice Exam for the Civil PE Exam: BREADTH + STRUCTURAL DEPTH (Sample Exams for the Civil PE Exam) (Volume 3) Mathematical Modeling of Collective Behavior in Socio-Economic and Life Sciences (Modeling and Simulation in Science, Engineering and Technology) Earthquake Engineering: From Engineering Seismology to Performance-Based Engineering The Program Evaluation Standards: A Guide for Evaluators and Evaluation Users ISO 10993-1:2003, Biological evaluation of medical devices - Part 1: Evaluation and testing Fundamentals of Earthquake Engineering (Civil engineering and engineering mechanics series) Wind and Earthquake Resistant Buildings: Structural Analysis and Design (Civil and Environmental Engineering) Matrix Structural Analysis (Pws-Kent Civil Engineering Series List) Conventional Label Printing Processes: Letterpress, lithography, flexography, screen, gravure and combination printing Jennifer Kries' Pilates Plus Method: The Unique Combination of Yoga, Dance, and Pilates Lasker's Combination: The Tacticians Handbook Vol. 4 Chess Combination Handbook: 1000 Tactical Exercises for Serious Tournament Training

[Dmca](#)