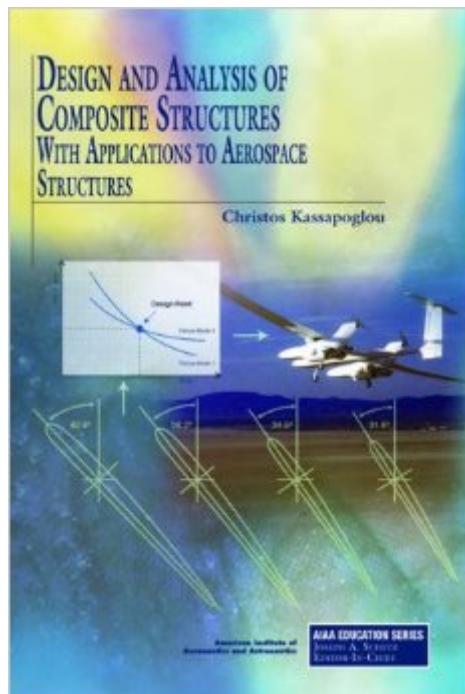


The book was found

Design And Analysis Of Composite Structures (AIAA Education)



Synopsis

Design and Analysis of Composite Structures enables graduate students and engineers to generate meaningful and robust designs of complex composite structures. Combining analysis and design methods for structural components, the book begins with simple topics such as skins and stiffeners and progresses through to entire components of fuselages and wings. Starting with basic mathematical derivations followed by simplifications used in real-world design, Design and Analysis of Composite Structures presents the level of accuracy and range of applicability of each method. Examples taken from actual applications are worked out in detail to show how the concepts are applied, solving the same design problem with different methods based on different drivers (e.g. cost or weight) to show how the final configuration changes as the requirements and approach change. * Provides a toolkit of analysis and design methods to most situations encountered in practice, as well as analytical frameworks and the means to solving them for tackling less frequent problems. * Presents solutions applicable to optimization schemes without having to run finite element models at each iteration, speeding up the design process and allowing examination of several more alternatives than traditional approaches. * Includes guidelines showing how decisions based on manufacturing considerations affect weight and how weight optimization may adversely affect the cost.

Book Information

Series: AIAA Education

Hardcover: 300 pages

Publisher: Amer Inst of Aeronautics & (October 15, 2010)

Language: English

ISBN-10: 1600867804

ISBN-13: 978-1600867804

Product Dimensions: 6.4 x 0.9 x 9.7 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,130,786 in Books (See Top 100 in Books) #94 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural Dynamics #355 in Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction #786 in Books > Arts & Photography > Decorative Arts & Design > Industrial & Product Design

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

Design and Analysis of Composite Structures (AIAA Education) Design and Analysis of Composite Structures: With Applications to Aerospace Structures Introduction to Dynamics and Control of Flexible Structures (Aiaa Education Series) Aircraft Design: A Conceptual Approach (Aiaa Education Series) Radar and Laser Cross Section Engineering, Second Edition (AIAA Education) Helicopter Flight Dynamics (AIAA Education) Structural Analysis and Design of Tall Buildings: Steel and Composite Construction Stress Analysis of Fiber-Reinforced Composite Materials The Education of the Child: And Early Lectures on Education (Foundations of Waldorf Education) Cats: The Cool Cat Fun Facts & Amazing Pictures eBook Guide - Cat Supplies - Cat Gifts, Pet Supplies, Cat Sense, Childrens Books, Children's Education, Education Books, Learning Resources, Education Tall Building Design: Steel, Concrete, and Composite Systems Design of Steel-Concrete Composite Bridges to Eurocodes Introduction to Composite Materials Design, Second Edition Algorithms: C++: Data Structures, Automation & Problem Solving, w/ Programming & Design (app design, app development, web development, web design, jquery, ... software engineering, r programming) Disabled Education: A Critical Analysis of the Individuals with Disabilities Education Act Response Spectrum Method in Seismic Analysis and Design of Structures (New Directions in Civil Engineering) Reinforced Concrete Structures: Analysis and Design, Second Edition Analysis and Design of Flight Vehicle Structures Java Software Structures: Designing and Using Data Structures Java Software Structures: Designing and Using Data Structures (3rd Edition)

[Dmca](#)