



# **Analysis and Design of Structural Sandwich Panels: The Commonwealth and International Library: Structures and Solid Body Mechanics Division (C.I.L.)**

*Howard G. Allen*

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Analysis and Design of Structural Sandwich Panels serves as a simple guide to the fundamental aspects of the theory of sandwich construction and to the assumptions on which it is based. This book discusses the real importance of the assumptions made in sandwich theory concerning the relative stiffness and thickness of the faces and the core.

Organized into 12 chapters, this book begins with an overview of the relatively simple problems of sandwich beams and struts. This text then discusses the bending of sandwich beams, which grows naturally from the ordinary theory of bending. Other chapters explore the bending and buckling of sandwich panels. This book discusses as well the panel analyses based on the Ritz method and on the derivation of differential equations for a sandwich plate.

This book should be of interest not only to aeronautical engineers but also to readers concerned with the design of sandwich panels in the building, plastics, and boat-building industries.

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