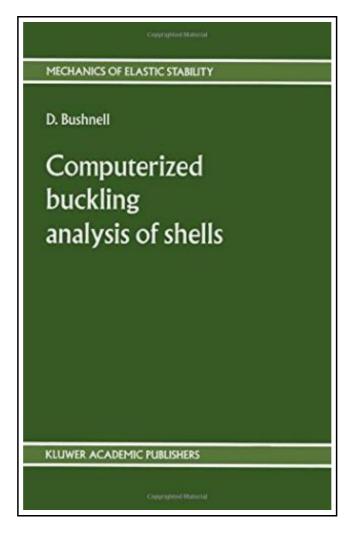
Computerized buckling analysis of shells



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Reviews

I just began reading this pdf. It is actually writter in straightforward words instead of hard to understand. Once you begin to read the book, it is extremely difficult to leave it before concluding. (Jensen Bins)

COMPUTERIZED BUCKLING ANALYSIS OF SHELLS



Book Condition: New. Publisher/Verlag: Springer Netherlands | This report describes the work performed by Lockheed Palo Alto Research Labora tory, Palo Alto, California 94304. The work was sponsored by Air Force Office of Scientific Research, Bolling AFB, Washington, D. C. under Grant F49620-77-C-0l22 and by the Flight Dynamics Laboratory, Air Force Wright Aeronautical Laboratories, Wright-Patterson AFB, Ohio under Contract F3361S-76-C-31OS. The work was completed under Task 2307Nl, "Basic Research in Behavior of Metallic and Composite Components of Airframe Structures". The work was admini stered by Lt. Col. J. D. Morgan (AFOSR) and Dr. N. S. Khot (AFWAL/FIBRA). The contract work was performed between October 1977 and December 1980. The technical report was released by the Author in December 1981. Preface Many structures are assembled from parts which are thin. For example, a stiffened plate or cylindrical panel is composed of a sheet the thickness of which is small com pared to its length, breadth, and stiffener- spacing, and stiffeners the thickness of which is small compared to their _ heights and lengths. These assembled structures, loaded in compression, can buckle overall, that is sheet and stiffeners can collapse together in a general instability mode; the sheet can buckle locally between stiffeners; the stiffeners can cripple; and a variety of complex buckling interactions can occur involving local and overall deformations of both sheet and stiffeners. More complex, built-up structures can buckle in more complex and subtle ways. | 1. Descriptions of types of instability and classical buckling problems.- Summary of the volume.- Purpose.- Why do shells buckle?.- What is buckling?.-Various types of bifurcation buckling.- Capsule of recent progress in buckling analysis.- Asymptotic analysis.-General nonlinear analysis.- Axisymmetric structures.- Simple examples to illustrate various types of buckling.-Column buckling.- Prebuckling solution or fundamental equilibrium path.- Bifurcation buckling.- Postbifurcation stability.- Loss of...



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