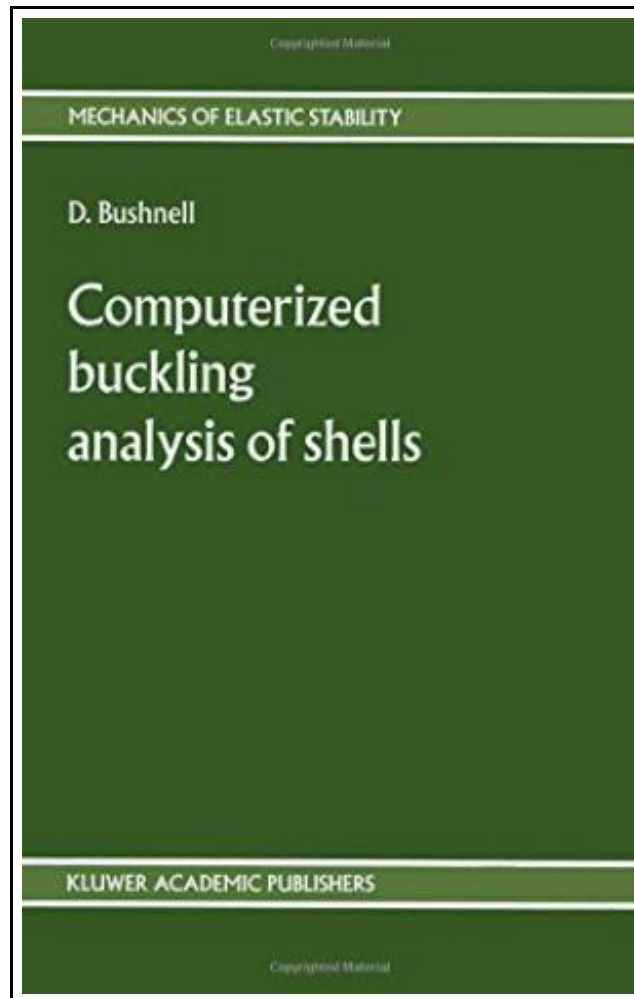


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COMPUTERIZED BUCKLING ANALYSIS OF SHELLS



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Book Condition: New. Publisher/Verlag: Springer Netherlands | This report describes the work performed by Lockheed Palo Alto Research Laboratory, 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-0122 and by the Flight Dynamics Laboratory, Air Force Wright Aeronautical Laboratories, Wright-Patterson AFB, Ohio under Contract F3361S-76-C-310S. The work was completed under Task 2307NI, "Basic Research in Behavior of Metallic and Composite Components of Airframe Structures". The work was administered 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 compared 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.- Post-bifurcation stability.- Loss of...



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