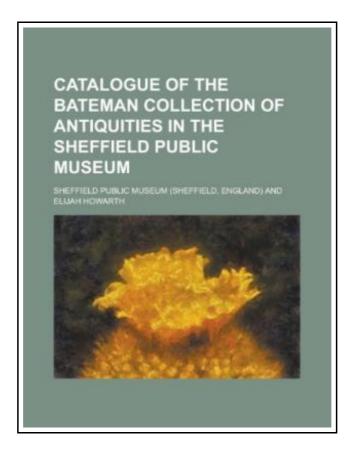
# Catalogue of the Bateman Collection of Antiquities in the Sheffield Public Museum



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## CATALOGUE OF THE BATEMAN COLLECTION OF ANTIQUITIES IN THE SHEFFIELD PUBLIC MUSEUM



RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 290 pages. Original publisher: Hampton, Va.: National Aeronautics and Space Administration, Langley Research Center, 2006 OCLC Number: (OCoLC)649706820 Subject: Shells (Engineering) -- Analysis. Excerpt: . . . Cook Membrane Problem Background The membrane problem posed by Cook (1987) involves a trapezoidal-shaped membrane fixed along one edge and loaded by in-plane shear loading along the opposite edge. The geometry of the membrane has the appearance of a swept-wing plan-form as shown in Figure 1. The dimensions, material properties and loading are defined in Figure 1 using U. S. customary units. y, v 48 in. P 1 lb. E 1 psi 1 3 h 1 in. B C P 16 in. Boundary Conditions A u (0, y) 0 44 in. v (0, y) 0 x, u Figure 1. Cook membrane problem: geometry, material properties, and loading. The membrane has a unit thickness and a unit in-plane shear load along the vertical edge at x 48 inches. The four corners of the membrane ( starting at the origin and moving in a clockwise manner ) have (x, y) coordinate values in inches of (0, 0), (0, 44), (48, 60), and (48, 44) - all coordinates are given in inches. This problem provides a good measure of the robustness of the elements since the fixed-end of the panel and its shape cause a stress gradient throughout the membrane, and it is frequently used to assess membrane elements (e.g., see Davis, 1995). The reference solutions obtained by Ibrahimbegovic, Taylor and Wilson (1990) for stresses and Cook (1993) for deflections are used for comparison. Modeling and Analysis Process The...

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