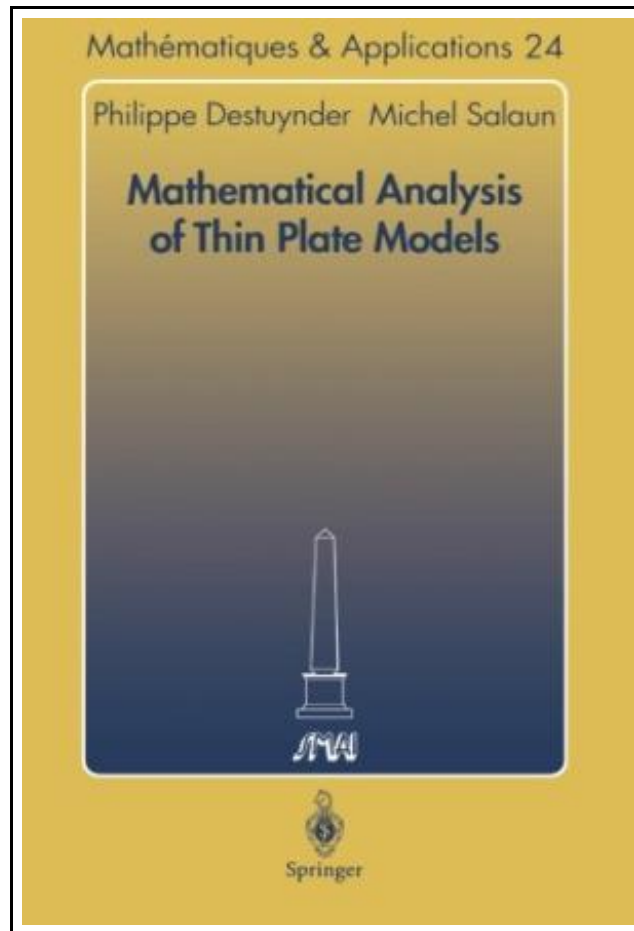


Mathematical Analysis of Thin Plate Models



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Reviews

This publication is great. It is full of wisdom and knowledge You will not really feel monotony at at any time of the time (that's what catalogs are for relating to when you ask me).

(Dr. Everett Dicki DDS)

MATHEMATICAL ANALYSIS OF THIN PLATE MODELS



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Springer. Paperback. Book Condition: New. Paperback. 236 pages. Dimensions: 9.0in. x 6.1in. x 0.7in. Shells and plates have been widely studied by engineers during the last fifty years. As a matter of fact an important number of papers have been based on analytical calculations. More recently numerical simulations have been extensively used. for instance for large displacement analysis. for shape optimization or even -in linear analysis -for composite material understanding. But all these works lie on a choice of a finite element scheme which contains usually three kinds of approximations: 1. a plate or shell model including small parameters associated to the thickness, 2. an approximation of the geometry (the medium surface of a shell and its boundary), 3. a finite element scheme in order to solve the model chosen. VI Obviously the conclusions that we can draw are very much depending on the quality of the three previous choices. For instance composite laminated plates with damage like a delamination is still an open problem even if interesting papers have already been published and based on numerical simulation using existing finite element and even plate models. In our opinion the understanding of plate modelling is still an area of interest. Furthermore the links between the various models have to be handled with care. The certainly best understood model is the Kirchhoff-Love model which was completely justified by P. O. Ciarlet and Ph. Destuynder in linear analysis using asymptotic method. But the conclusion is not so clear as far as large displacements are to be taken into account. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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