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Mathematical Analysis of Thin Plate Models

By Philippe Destuynder

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. 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...



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