



The Finite Element Method in Thin Shell Theory: Application to Arch Dam Simulations (Progress in Scientific Computing)

Bernardou, Boisserie

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This Monograph has two objectives : to analyze a finite element method useful for solving a large class of thin shell problems, and to show in practice how to use this method to simulate an arch dam problem. The first objective is developed in Part I. We record the definition of a general thin shell model corresponding to the W.T. KOITER linear equations and we show the existence and the uniqueness for a solution. By using a conforming finite element method, we associate a family of discrete problems to the continuous problem ; prove the convergence of the method ; and obtain error estimates between exact and approximate solutions. We then describe the implementation of some specific conforming methods. The second objective is developed in Part 2. It consists of applying these finite element methods in the case of a representative practical situation that is an arch dam problem. This kind of problem is still of great interest, since hydroelectric plants permit the rapid increase of electricity production during the day hours of heavy consumption. This regulation requires construction of new hydroelectric plants on suitable sites, as well as permanent control of existing dams that may be enlightened by numerical stress analysis .

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