



Laminated Composite Plates and Shells: 3D Modelling

Jianqiao Ye

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Laminated Composite Plates and Shells presents a systematic and comprehensive coverage of the three-dimensional modelling of these structures. It uses the state space approach to provide novel tools for accurate three-dimensional analyses of thin and thick structural components composed of laminated composite materials. In contrast to the traditional treatment of laminated materials, the state space method guarantees a continuous interfacial stress field across material boundaries. Other unique features of the analysis include the non-dependency of a problem's degrees of freedom on the number of material layers of a laminate. Apart from the introductions to composite materials, three-dimensional elasticity and the concept of state space equations presented in the first three chapters, the book reviews available analytical and numerical three-dimensional state space solutions for bending, vibration and buckling of laminated composite plates and shells of various shapes. The applications of the state space method also include the analyses of piezoelectric laminates and interfacial stresses near free edges. The book presents numerous tables and graphics that show accurate three-dimensional solutions of laminated structural components. Many of the numerical results presented in the book are important in their own right and also as test problems for validating new numerical methods. **Laminated Composite Plates and Shells** will be of benefit to all materials and structural engineers looking to understand the detailed behaviour of these important materials. It will also interest academic scientists researching that behaviour and engineers from more specialised fields such as aerospace which are becoming increasingly dependent on composites.

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