

Finite Element Analysis of Composite Laminates

O. O. Ochoa and J. N. Reddy

Composite materials are increasingly used in aerospace, underwater, and marine structures. To take advantage of the full potential of composite materials, structural engineers and designers must have accurate mathematical tools and design methods at their disposal.

The objective of this monograph is to present the laminated plate theories and the finite element models to study the deformation, strength and failure of composite structures. Emphasis is placed on engineering aspects, such as the physical interpretations, effective analysis tools, modeling of physical features, and evaluation of approaches used to formulate and predict the response of composite structures.

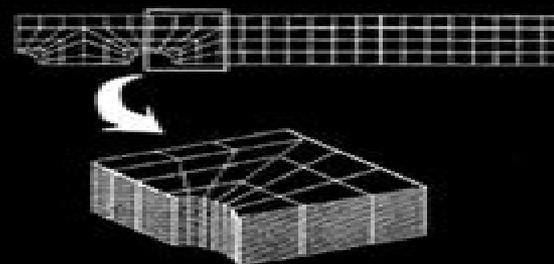
The first chapter presents an overview of the text. Chapter 2 is devoted to the reduction of the definitions and terminology used in composite materials and structures. Anisotropic constitutive relations and laminate plate theories are also reviewed. Finite element models of laminated composite plates are presented in Chapter 3. Numerical evaluation of stresses, coefficient matrices, joint compatibility in all strains and stresses, and sample examples of laminated plates in bending and vibration are discussed. Chapter 4 introduces damage and failure criteria in composite laminates. Finally, Chapter 5 is dedicated to case studies involving stress, aspects and types of composite structures. Joints, cutouts, woven composites, environmental effects, postbuckling response and failure of composite laminates are discussed by considering specific examples.

Ochoa
Reddy

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