

INTRODUCTION

Course Description

It is proposed to review the Analysis of Laminated Composite Materials in nine sections as follows:

- Section 1 Introduction to Composite Materials
- Section 2 Micromechanics
- Section 3 Basic Laminate Theory
- Section 4 Characteristics of Symmetric and Non-Symmetric Laminates
- Section 5 Failure Criteria for Laminated Materials
- Section 6 Finite-Element Analysis
- Section 7 Buckling and Vibration of Laminated Materials
- Section 8 Joints for Laminated Structures
- Section 9 Summary

The intention is to provide a broad overview of methods, general principles, and characteristic results. Literature for further study is referenced at the conclusion of each section.