



MACRO AND MICRO MECHANICS OF COMPOSITES

1. **Broad Introductory Lecture on Composite Materials, Structures and Applications**
2. **Micromechanical Predictions of Elastic Constants**
3. **Macro Mechanical Analysis of a Composite Lamina**
4. **Plane Stress-strain Relationship for on-axes lamina**
5. **Plane stress-strain relationship of off-axes lamina**
6. **Introduction to classical thin plate theory**
7. **Symmetric laminate under in-plane loads**
8. **Failure Theories for Composite Laminates**