

CONTENTS

	Page
Calculations of the Room-Temperature Shapes of Unsymmetric Laminates	1
Stresses Around Rectangular Holes in Orthotropic Plates	16
Failure of Composite Joints Under Combined Tension and Blot Loads	34
On the Relationship Between Engineering Properties and Delamination of Composite Materials	41
A Rapidly Convergent Scheme to Compute Moisture Profiles in Composite Materials Under Fluctuating Ambient Conditions	54
Finite Element Analysis of Instability Related Delamination Growth	63
Thermal Response of Graphite Epoxy Composite Subjected to Rapid Heating	86
Probabilistic Burst Strength of Filament – Wound Cylinders Under Internal Pressure	102
Adhesive Joints Involving Composites and Laminates. Measurement of Stresses Caused by Resin Swelling	120
Irreversible Hygrothermomechanical Behavior and Numerical Analysis in Anisotropic Materials	130
Three-Dimensional Inelastic Finite Element Analysis of Laminated Composites	150
Variations in Acoustic Emission Between Graphite-and Glass-Epoxy Composites	168
Strengths and Thermal Residual Stresses of Unidirectional Composites	175
Random Lattice Electrical Conductivity Calculations for a Graphite	188
Moisture Diffusivity of Unidirectional Composites	200
Fatigue Damage Detection in Thin Composite Laminates Using Out-of-Plane Moire Interferometry	212
Experimental Determination of the In Situ Transverse Lamina Strength in Graphite	220
Three-Dimensional Elastic Moduli of Graphite/Epoxy Composites	233
Tensile Strength of Unidirectionally Reinforced Composites	240
Graphite/Epoxy[±45]s Tubes. Their Static Axial and Shear Properties and Their Fatigue Behavior under Completely Reversed Load Controlled Loading	251