



Stress Redistribution in Composite Materials

By Luay S. Alansari

CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 132 pages. Dimensions: 10.0in. x 7.0in. x 0.3in. In the last twenty years, composite materials were used in several engineering applications for possessing a good combination of properties. Therefore, researchers are interested in investigating these materials and their classifications, manufacturing, properties and failure. This book is concentrated on failure behavior of composite materials and the goals of this work are: 1. Building a finite element model describing the breakage effect in composite materials and comparing this model with the shear lag model in terms of accuracy of results, computation time and the cases that can be calculated by the models. 2. Studying the distribution process which happens due to the breakage in fiber (or matrix or both) and also studying the effects of the misalignment phenomena on the redistribution process. 3. Using the finite element model to calculate the shear stress along the surfaces between any pair of matrix-fiber in the structure of composite materials, since the shear stress, in previous shear lag models, can not be calculated with good accuracy. This book consists of three sections. Each section deals with several points used to understand the problem...



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