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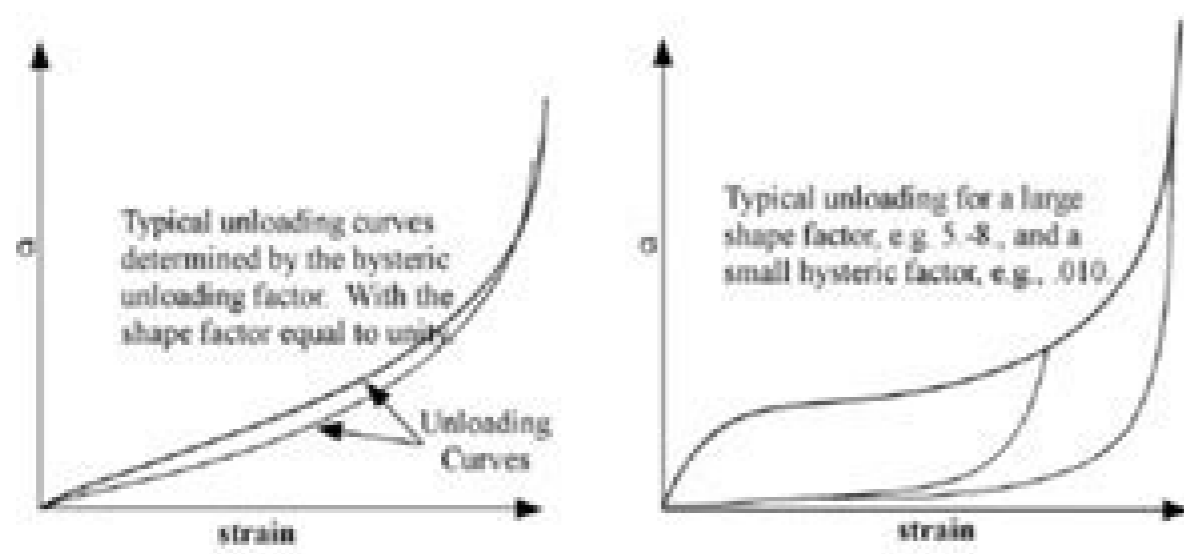
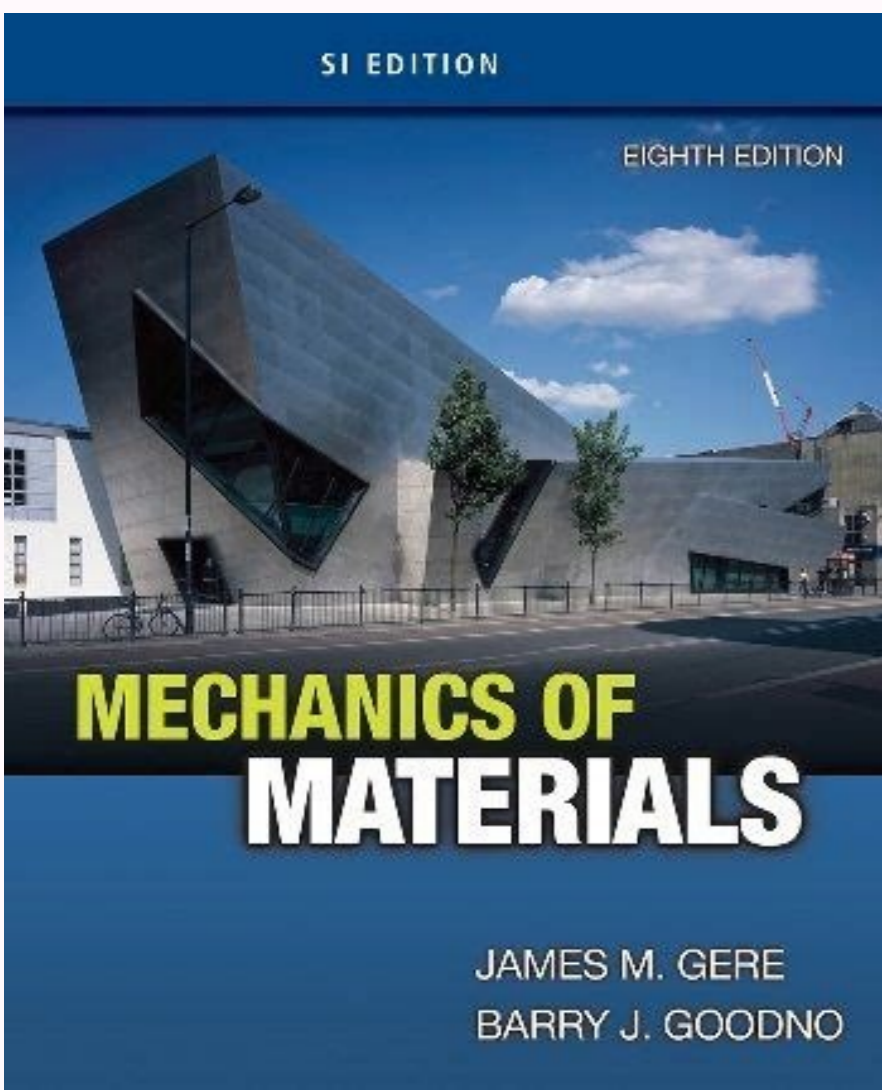


Figure 19.57.1. Behavior of the low-density urethane foam model.

Material Type 58: Laminated Composite Fabric

Parameters to control failure of an element layer are: ERODS, the maximum effective strain, i.e., maximum $l = 100\%$ straining. The layer in the element is completely removed after the maximum effective strain (compression/tension including shear) is reached.

The stress limits are factors used to limit the stress in the softening part to a given value,

$$\sigma_{max} = SLIM_{xx} \cdot strength_x$$

thus, the damage value is slightly modified such that elastoplastic like behavior is achieved with the threshold stress. As a factor for $SLIM_{xx}$ a number between 0.0 and 1.0 is possible. With a factor of 1.0, the stress remains at a maximum value identical to the strength, which is similar to ideal elastoplastic behavior. For tensile failure a small value for $SLIM_{Tx}$ is often reasonable; however, for compression $SLIM_{Cx} = 1.0$ is preferred. This is also valid for the corresponding shear value. If $SLIM_{xx}$ is smaller than 1.0 then localization can be observed depending on the total behavior of the lay-up. If the user is intentionally using $SLIM_{xx} < 1.0$, it is generally recommended to avoid a drop to zero and set the value to something in between 0.05 and 0.10. Then elastoplastic behavior is achieved in the limit which often leads to less numerical problems. Defaults for $SLIM_{XX} = 1.0E-8$.

The crashfront-algorithm is started if and only if a value for TSIZE (time step size, with element elimination after the actual time step becomes smaller than TSIZE) is input.

The damage parameters can be written to the postprocessing database for each integration point as the first three additional element variables and can be visualized.

Material models with FS=1 or FS=-1 are favorable for complete laminates and fabrics, as all directions are treated in a similar fashion.

For material model FS=1 an interaction between normal stresses and shear stresses is assumed for the evolution of damage in the a- and b- directions. For the shear damage is always the maximum value of the damage from the criterion in a- or b- direction is taken.

For material model FS=-1 it is assumed that the damage evolution is independent of any of the other stresses. A coupling is present only via the elastic material parameters and the complete structure.

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