

Multiple Choice Quiz: Section 2.3: Hooke's Law for Different Types of Materials

_____ 1. To find the value of the major Poisson's ratio, ν_{12} of a unidirectional lamina, one would apply the following stress to the unidirectional lamina.

- A Normal stress perpendicular to the fiber direction
- B Normal stress parallel to the fiber direction
- C Shear stress to the lamina in the 1-2 plane

_____ 2. An assumption that must be made when using Hooke's law for a two-dimensional unidirectional lamina in plane-stress is:

- A Only axial loads are applied.
- B There are no out-of-plane loads.
- C Only shear loads are applied.

_____ 3. To find the value of the longitudinal modulus E_1 of a unidirectional lamina, one would apply the following stress to the lamina.

- A Normal stress perpendicular to the fibers
- B Normal stress parallel to the fibers
- C Shear stress to the lamina in the 1-2 plane