I	Mul	tiple Choice Quiz: Section 4.3: Stress-Strain Relationships for a Laminate
	1.	Matrix [A*] is known as the
	Α	Pending stiffness matrix.
	В	Transformation matrix.
	С	Coupling stiffness matrix.
	D	Extensional compliance matrix.
	2.	The coupling matrix [B] is zero for
	Α	symmetric laminates.
	В	all quasi isotropic laminates.
	С	non-symmetric laminates.
		A typical graphite epoxy lamina with 70% FVF of 0.005 inch thickness and 1 inch width will fail bout an extensional load applied in direction of fibers
	A	2000 lbs
	В	1100 lbs
	С	3000 lbs
	D	250 pounds.
	4.	The following assumptions relate to the classical lamination theory except
	Α	Each lamina is orthotropic.
	В	Each lamina is elastic.
	С	Slip occurs between lamina interfaces.
	D	The lamina is thin.
	5.	(A) (B) and (D) are called

	Α	Coupling, Bending, and Extensional Stiffness matrices, respectively.
	В	Extensional, Bending, and Coupling Stiffness matrices, respectively.
	С	Extensional, Coupling, and Bending Stiffness matrices, respectively.
	6.	The [B] matrix for an asymmetric laminate is
	Α	zero.
	В	non-zero.
· · · · · · · · · · · · · · · · · · ·	7.	The extensional stiffness matrix [A] for a laminate will not change if
	Α	elastic properties of the lamina are changed.
	В	stacking sequence is changed.
	С	angle of plies is changed.
	8. app	Under an axial load on a $[20/30/30/20]$ laminate, the global strains vary linearly (choose all that ly).
	Α	through the thickness of the laminate
	В	through the thickness of each lamina
		For a symmetric [34/65/65/34] Graphite/epoxy laminate, the following is true under a uniaxial applied in the global x-direction
	Α	mid plane strains will be zero
	В	mid plane curvatures will be zero
	10. load	For a symmetric [34/65/65/34] Graphite/epoxy laminate, the following is true under a twisting applied on the face perpendicular to the x-axis.
	Α	mid-plane curvatures will be zero

В	mid-plane strains will be zero
11 A B	. Under an axial load on a [20/30/30/20] laminate, the global stresses vary linearly through the thickness of the laminate through the thickness of each lamina
	2. In addition to the thickness of the laminate, the in-plane elastic moduli of a symmetric ninate are found by knowing which of the following matrices?
А	coupling stiffness matrix
В	bending stiffness matrix
С	extensional stiffness matrix