

Mechanics of Composite Materials
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Answers to Selected Problems

Chapter 6

6.1

1. = $4.697m$

2. = $\begin{bmatrix} -7.726 \times 10^7 \\ 2.817 \times 10^6 \\ -1.815 \times 10^7 \end{bmatrix} Pa$

6.2

1. = $4.582mm$

2. = $\begin{bmatrix} -8.209 \times 10^7 \\ 9.037 \times 10^5 \\ -2.446 \times 10^7 \end{bmatrix} Pa$

6.3

Bending Stiffness = $2.928 \times 10^{10} Pa$

Average modulus = $2.344 \times 10^{10} Pa$

Difference = 19.95%