

Special Problem 2-3.5

Mark the following expressions as either a scalar quantity (S), a vector quantity (V), or neither (N) (i.e. N indicates that the expression has no mathematical meaning).

$$\mathbf{A}(\mathbf{B} \cdot \mathbf{C})$$

$$(\mathbf{A} \cdot \mathbf{B}) + \mathbf{C}$$

$$(\mathbf{A} \cdot \mathbf{B}) \cdot \mathbf{C}$$

$$(\mathbf{A} \times \mathbf{B}) \mathbf{C}$$

$$\mathbf{C}(\mathbf{A} \cdot \mathbf{B}) - (\mathbf{A} \cdot \mathbf{C})\mathbf{B}$$

$$\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot (\mathbf{B} \times \mathbf{C})$$

$$\mathbf{A} \cdot \mathbf{B} \times \mathbf{C} \cdot \mathbf{D}$$

$$\frac{\mathbf{A}}{\mathbf{B}}$$

$$\frac{\mathbf{A}}{\mathbf{B} \cdot \mathbf{C}}$$

$$\frac{\mathbf{A} \cdot \mathbf{B}}{\mathbf{A} \cdot \mathbf{C}}$$
