



Normal and shear stresses are defined by Equations 6.1 and 6.3, respectively. However, we now choose to express these stresses in terms (i.e., general terms of normal and shear forces (P'' and P')) as

$$\sigma = \frac{P''}{A'}$$
$$\tau = \frac{P'}{A'}$$

For static equilibrium in the x' direction the following condition must be met:

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