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 $2 \frac{d}{dx} \left(\frac{1}{2} \rho C_a L b \dot{w}^2 \right) = - \frac{d}{dx} \left(\frac{1}{2} \rho C_a L b \dot{w}^2 \right)$, where $2 \frac{d}{dx} \left(\frac{1}{2} \rho C_a L C = (3.4.4) \right)$ Substituting (3.4.4) into (3.4.2) we have, $2 \frac{d}{dx} \left(\frac{1}{2} \rho C_a A e l l p \dot{w}^2 \right) = - \frac{d}{dx} \left(\frac{1}{2} \rho C_a A e l l p \dot{w}^2 \right)$ We can find the optimum solution by $0 = \frac{d}{dx} \left(\frac{1}{2} \rho C_a A e l l p \dot{w}^2 \right) = - \frac{d}{dx} \left(\frac{1}{2} \rho C_a A e l l p \dot{w}^2 \right)$, therefore we have $2 \frac{d}{dx} \left(\frac{1}{2} \rho C_a A e l l p \dot{w}^2 \right) = 0$, $> b a$ Substitute it back to (3.4.4), we have $a C b = 2 \frac{d}{dx} \left(\frac{1}{2} \rho C_a A e l l p \dot{w}^2 \right)$ (3.4.5) That means the optimum cross-section for elliptical shapes is a circle.

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7.2 A bar is built-in at the left end and

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supported at the tight end by a linear spring with spring constant k . Find the equation for buckling loads. Hint: The boundary conditions are $0 = w$ and $0 = dx/dw$ at the left end; and $0 = M$ and $0 = V$ at the right end.

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So we can determine the shear center by

$$= q V M M \Rightarrow z z z sc z V V V y V 055. 0$$

$$06. 0) 055. 0 (- - - = \Rightarrow m y sc 17. 0 -$$

= The negative sign indicates the opposite side as we assumed.--- ANS (b) Figure 5.32

(1) Since this cross-section is symmetric with respect to y axis, shear center is located in the y axis.

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