



# Coastal Construction Manual

## FORMULA CALCULATOR

12.9 Determination of Actual Bending Stress

<b>P :</b>		<b>f<sub>b</sub> =</b>	<b>lb/in<sup>2</sup></b>
<b>L :</b>			
<b>S :</b>			

$$f_b = (PL)(12 \text{ in/ft})/S$$

**f<sub>b</sub>** = actual bending stress (lb/in<sup>2</sup>)

**P** = applied lateral load

**L** = allowable unbraced pile length (feet) (from Formula 12.10)

**S** = section modulus (in<sup>3</sup>)