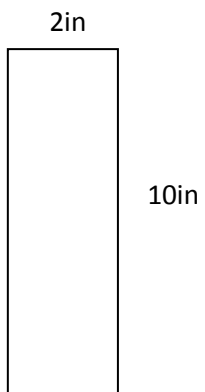


Structures II Review – 9/10/2008

Fake Quiz

What is the equation for bending stress (also called the flexure formula)?

Floor joists having cross sectional dimensions of 2in x10in are simply supported, span 15ft and carry a floor load of 50lb/ft^2 . What is the center to center spacing between the joists to develop a max bending stress of 1400lb/in^2 ? $I=166.7\text{ in}^4$.



Structures II Review – 9/10/2008

Fake Quiz

What length of span would result in a max bending stress of 2400lb/in^2 ?