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5 We use Euler equation to calculate bending stress  $M/I = F/Y = E/R$   $Z M C I M ? = =$  We use  $\sigma = M y / I$  or  $\sigma = M c / I$  to calculate inner /outer fibre stress Derive the expression for the normal stress due to bending at the extreme fibers of a curved beam. Assumptions:- 1. The beam is subjected to pure bending. 2.

### DESIGN OF MACHINE ELEMENTS -II

Finite Element Analysis, commonly called FEA, is a method of numerical analysis. FEA is used for solving problems in many engineering disciplines such as machine design, acoustics, electromagnetism, soil mechanics, fluid dynamics, and many others.

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