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be3-eps-converted-to.pdf

3 node beam element (be3, type 12)

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6 node shell element (tr6, type 8)

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8 node shell element (qu8, type 10)

te10-eps-converted-to.pdf

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20 node brick element (he20, type 4)



pe15-eps-converted-to.pdf

15 node penta element (pe15, type 5)

$$\sigma_{vM} = \frac{1}{\sqrt{2}} \sqrt{(\sigma_x - \sigma_y)^2 + (\sigma_y - \sigma_z)^2 + (\sigma_z - \sigma_x)^2 + 6\tau_{yz}^2 + 6\tau_{zx}^2 + 6\tau_{xy}^2}$$



$$e_{vM} = 2/3 * \frac{1}{\sqrt{2}} \sqrt{(e_x - e_y)^2 + (e_y - e_z)^2 + (e_z - e_x)^2 + 6e_{yz}^2 + 6e_{zx}^2 + 6e_{xy}^2}$$







$$\begin{bmatrix} \sigma_{xx} - \lambda & \sigma_{xy} & \sigma_{xz} \\ \sigma_{yx} & \sigma_{yy} - \lambda & \sigma_{yz} \\ \sigma_{zx} & \sigma_{zy} & \sigma_{zz} - \lambda \end{bmatrix} \begin{bmatrix} nx \\ ny \\ nz \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$







$$\sigma^3 ( \sigma x + \sigma y + \sigma z ) \sigma^2 + ( \sigma x \sigma y + \sigma y \sigma z + \sigma z \sigma x - \sigma^2 x - \sigma^2 y - \sigma^2 z )$$

$$\sigma_x^2 \sigma - (\sigma_x \sigma_y \sigma_z + \sigma_x \sigma_y^2 \sigma_z - \sigma_x \sigma_y \sigma_z^2 - \sigma_x^2 \sigma_y \sigma_z) = 0$$

$$\text{modShor} = 0.5 * \text{mod}(\sigma_1 - \sigma_2), (\sigma_1 - \sigma_2)$$

$AB = STB$   $\Rightarrow$   $STB$  ist Stress (model)  $AB$  ist Stress (model)

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