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Foundations Of Material Science Engineering

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Foundations of Materials Science and Engineering

Foundations of Materials Science and Engineering by William Smith, Javad Hashemi

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Engineering Stress and Strain Engineering stress $\sigma = \frac{F}{A_0}$ A Figure 5.15 F (Average uniaxial tensile force) A_0 (Original cross-sectional area) Units of Stress are PSI or N/M² (Pascals) 1 PSI = 6.89×10^3 Pa Engineering strain = $\epsilon = \frac{\Delta l}{l_0}$ Change in length Original length 0 0 0 0 Units of strain are in/in or m/m. 6-11

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