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9. Spacecraft Structures MAE 342 2016 - Princeton University

5 Expanded Views Of Spacecraft Structures

9.9 Structural Material Properties • Stress, σ : Force Per Unit Area • Strain, ϵ : Elongation Per Unit Length $\sigma = E\epsilon$ • Proportionality Factor, E : Modulus Of Elasticity, Or Young's Modulus • Strain Deformation Is Reversible Below The Elastic Limit • Elastic Limit = Yield Strength • Proportional Limit III-defined For Many Materials Jan 14th, 2024.

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Since The Bullet Is In Free-flight, There Are No Forces. Thus The Equations Of Motion Are $0 \ 0 \ 0 = m \ U' + qw - rv \ V' + ru - Pw$
 $W' + pv - Qu = m \ U$ May 5th, 2024.

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