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The Spacecraft Is A Small Percentage Of The Total Mass Of The Launch Vehicle Solid Rocket Motors Stage I Engine Payload (spacecraft)—typically 1% To 2% Of The Mass Of The Structural Adapter Launch Vehicle (LV) Payload Fairing Oxidizer Stage II Engine Liguid Fuel (some LVs Use Solid-propellant For First And Second Stages) We Must Keep The ... Apr 4th, 2024

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5 Expanded Views Of Spacecraft Structures 9 9 Structural Material Properties • Stress, σ : Force Per Unit Area • Strain, ϵ : Elongation Per Unit Length $\sigma = \epsilon$ • Proportionality Factor, ϵ : 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 lun 3th, 2024

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