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 D Is The Vehicle's Drag Coefficient, A Is Its Effective Cross-sectional Area, M Is Its Mass, Q Is The Atmospheric Density, G Is The Acceleration Due To Gravity, R_E Is Earth's Radius, L/D Is The Vehicle's Lift-to-drag Ratio, And R Is The Vehicle's Roll Angle.²¹ We Calculate Atmospheric Density Using The 1976 U.S. Standard Atmosphere. 4th, 2024
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