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3 Equivalent Bonds Oriented At 90° To Each Other, And The S Electron Would Form A Bond Of A Different Type And Orientation From The Other Three. No Such Compound Exists. The Simplest Hydrocarbon -methane (CH₄)- Is Known To Have Tetrahedral Geometry, Where The Four C-H Bonds Are All Equivalent And Positioned At 109.5° Angles To Each Other. Mar 3th, 2024

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•Must Be Kept Close To Absolute Zero •Occupies A Very Large Volume For A Very Low Mass. • This Makes The Container Heavy, Because It Is Large, Thick, And Well Insulated. •Any Large Vehicle In LEO For A Long Period Is Subject To Debris Strikes. •The Risk Is Increased Because A Prop Feb 21th, 2024

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Kepler's First Law - The Orbit Of Each Planet Is An Ellipse With The Sun At One Focus. Kepler's Second Law - The Line Joining Any Planet To The Sun Sweeps Out Equal Areas In Equal Times. Kepler's Third Law - The Squares Of The Periods O Mar 2th, 2024

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Planet's Mass To That Of The Sun And The Size Of Their Spheres Of Influence. Table 1-1 Relative Mass Orbital Radius, Km R. SOI (Km) Mercury $.167 \times 10^{-6}$ 5.78×10^8 $.98,000$ Venus $.245 \times 10^{-5}$ 1.08×10^8 $536,000$ Earth $.300 \times 10^{-5}$ 1.49×10^8 ... Feb 27th, 2024

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Applying Vis Viva At The Periapse Point, With R Given By Eqn. 15, Yields The Orbital Speed At Periapse Passage, $V_P = \sqrt{R A (1 + E)}$; (35) Which Corresponds To The Maximum Value V can Have. Similarly, Vis Viva And Eqn. 16 Give The Orbital Speed At Apoapse, $V_A = \sqrt{R A (1 - E)}$; (36) Which Is Th Mar 24th, 2024

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