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3.1 Electron Configuration Rules Electrons Fill The Lowest Energy Orbital First (Aufbau ... Provide The Electron Configurations (in Spdf And Noble Gas Notation) ...  
4.1 Periodic Table Organization Chapter 8 4.2 Periodic Table Organization S-block Atoms Where An S Sublevel Is Being Filled P ... Feb 1th, 2024

## **ORBITAL PICTURE OF BONDING: ORBITAL COMBINATIONS ...**

3 Equivalent Bonds Oriented At  $90^\circ$  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 ( $\text{CH}_4$ )– Is Known To Have Tetrahedral Geometry, Where The Four C-H Bonds Are All Equivalent And Positioned At  $109.5^\circ$  Angles To Each Other. Feb 1th, 2024

## **Orbital Energy Management - Or Orbital Refueling That Works**

- 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 Apr 1th, 2024

## **Orbital Debris Modeling And The Future Orbital Debris ...**

LEGEND Overview (1/2) • LEGEND, A LEO-to-GEO Environment Debris Model – Is A High Fidelity, Three-dimensional Numerical Simulation Model For Long-term Orbital Debris Evolutionary Studies – Replaces The Previous One-dimensional, LEO Only

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Planet's Mass To That Of The Sun And The Size Of Hteir Spheres Of Influence. Table 1-1 Relative Mass Orbital Radius, Km R. SOI (Km) Mercury .167 X 10-6.578 X 10. 8 . 98,000 Venus .245 X 10-5. 1.08 X 10. 8. 536,000 Earth .300 X 10-5. 1.49 X 10 ... Mar 1th, 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 Feb 1th, 2024

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Errata H.D. Curtis Orbital Mechanics For Engineering Students, 4th Edition February 24, 2020 3 Chapter 2 Page 57 At The Beginning Of The Third Line Down, Change “Eq. (1.40)” To “Eq. (1.31). Page 59 The First Of The Three Equations In Eq. (2.19a) Should Read  $X_1 = Gm_2 / X_2^2 - X_1 / R_3$  Page 59 The Beginning Of The Second Line

Above Algorithm 2.1 Should Read, Apr 2th, 2024

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