

Quantum Number Problems

Use the rules for quantum numbers and notes to answer the questions below:

Rules: (1) $n = 1, 2, \dots, \infty$

(2) $l = 0, 1, 2, 3, \dots, n-1$ or s ($l = 0$), p ($l = 1$), d ($l = 2$), f ($l = 3$)

(3) $m_l = -l, -(l-1), \dots, 0, \dots, +(l-1), +l$ (e.g., when $l = 1$, $m_l = -1, 0, +1$)

(4) The number of nodal planes (N_p) is equal to the angular momentum quantum number. This means $l = N_p$.

(5) The total number of nodes is $N_T = N_p + N_r$, where N_r is the number of spherical nodes (radial nodes).

$N_T = n - 1$ where n is the principal quantum number. So $n = N_p + N_r + 1$

From these orbitals: 2s 3d 4p 5f 6d 7p

Fill in the blanks with the correct answer(s):

(answers may be used more than once or not at all; none is a possible answer)

- | | | | |
|--|-------|---|-------|
| 1. The orbital(s) with $n = 6$ | _____ | 4. The orbital(s) with 0 planar nodes | _____ |
| 2. The orbital(s) with $l = 1$ | _____ | 5. The orbital(s) with 3 spherical nodes | _____ |
| 3. The orbital(s) that can have $m_l = -2$ | _____ | 6. The orbital(s) with a total of 5 nodes | _____ |

Problems On Quantum Numbers

Fujia Yang, Joseph H Hamilton



Problems On Quantum Numbers:

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Problems On Quantum Numbers**

In a global inundated with screens and the cacophony of instant conversation, the profound energy and emotional resonance of verbal art frequently disappear into obscurity, eclipsed by the regular assault of sound and distractions. Yet, nestled within the lyrical pages of **Problems On Quantum Numbers**, a captivating work of literary brilliance that impulses with natural feelings, lies an memorable trip waiting to be embarked upon. Written by a virtuoso wordsmith, that exciting opus guides viewers on a psychological odyssey, gently revealing the latent potential and profound affect stuck within the complicated internet of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is central themes, dissect its charming writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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