

Chapter 1: Answers to Review Problems

Section 1.1

- 1) The energy of electromagnetic radiation is inversely proportional to its wavelength; the shorter the wavelength, the higher the energy.
The frequency of a wave refers to the number of times a wave repeats itself in a given amount of time. The shorter the wavelength, the higher the frequency.
Energy and frequency are directly proportional; the higher the frequency, the higher the energy.
- 2) Each of these series refers to a group of spectral lines, each line corresponding to a specific wavelength of electromagnetic radiation, and therefore, a specific energy of radiation.
The Bohr model states that normally the electron in hydrogen occupies the lowest energy level and this is called the ground state. If the electron absorbs energy, it is promoted to a higher energy level, known as an excited state. As the excited state is not stable, the electron will eventually return to a lower energy level, emitting the absorbed energy as light. The energy difference between the excited state and the ground state corresponds to light of a certain wavelength.
The Balmer series refers to wavelengths of light emitted when an electron falls from a higher energy level to $n = 2$; these wavelengths fall in the visible region of the spectrum.
The Lyman series refers to wavelengths of light emitted when an electron falls from a higher energy level to $n = 1$; these wavelengths fall in the ultraviolet region of the spectrum.
The Paschen series refers to wavelengths of light emitted when an electron falls from a higher energy level to $n = 3$; these wavelengths fall in the infrared region of the spectrum.
- 3) The $\Psi_2(x)$ wave has a shorter wavelength than that of the $\Psi_1(x)$ wave. Therefore, the energy of the $\Psi_2(x)$ wave is greater than that of the $\Psi_1(x)$ wave. Also, the greater the number of nodes, the higher the energy.
- 4) **Pauli's Exclusion Principle** states that no two electrons in an atom will have the same set of four quantum numbers. The valence shell configuration of Carbon is $2s^2 2p^2$
For the two electrons in the $2s$:
Electron # 1: $n = 2, l = 0, m_l = 0, m_s = +\frac{1}{2}$
Electron # 2: $n = 2, l = 0, m_l = 0, m_s = -\frac{1}{2}$
These two electrons have different values for m_s , so the two electrons have a different set of 4 quantum numbers.

Physics Chapter 1 answers

Ian Pickup



Physics Chapter 1 answers:

The Top Books of the Year Physics Chapter 1 answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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