

Problem #7, 10 points, McQuarrie and Simon: Chapter 12, Problem 28 + Extra.

Given the four symmetry orbitals of butadiene:

$$\phi_1 = \frac{1}{\sqrt{2}}(\psi_1 - \psi_4)$$

$$\phi_2 = \frac{1}{\sqrt{2}}(\psi_2 - \psi_3)$$

$$\phi_3 = \frac{1}{\sqrt{2}}(\psi_1 + \psi_4)$$

$$\phi_4 = \frac{1}{\sqrt{2}}(\psi_2 + \psi_3)$$

Derive the Hückel theory secular determinant

$$\begin{vmatrix} \alpha - E & \beta & 0 & 0 \\ \beta & \alpha - \beta - E & 0 & 0 \\ 0 & 0 & \alpha - E & \beta \\ 0 & 0 & \beta & \alpha + \beta - E \end{vmatrix} = 0$$

Which, given the substitution $x = \frac{\alpha - E}{\beta}$, reduces to

$$(x^2 - x - 1)(x^2 + x - 1) = 0.$$

Use this expression to solve for the four values of x , which yield four values of E . Specify these values, and plot them on an energy diagram.

Mcquarrie Problem 7

Lauren Gardner



Mcquarrie Problem 7:

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Mcquarrie Problem 7**

In a global inundated with monitors and the cacophony of quick communication, the profound energy and mental resonance of verbal artistry usually diminish into obscurity, eclipsed by the constant onslaught of sound and distractions. However, nestled within the musical pages of **Mcquarrie Problem 7**, a captivating function of fictional elegance that impulses with organic thoughts, lies an remarkable journey waiting to be embarked upon. Published with a virtuoso wordsmith, this magical opus manuals readers on a psychological odyssey, softly exposing the latent possible and profound influence stuck within the complicated internet of language. Within the heart-wrenching expanse of the evocative evaluation, we can embark upon an introspective exploration of the book is key themes, dissect its interesting writing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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