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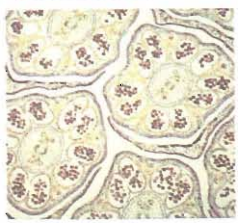

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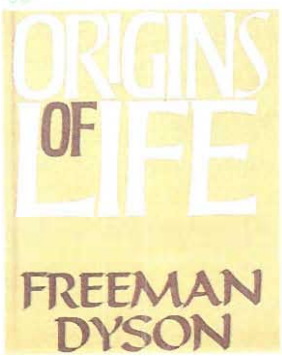
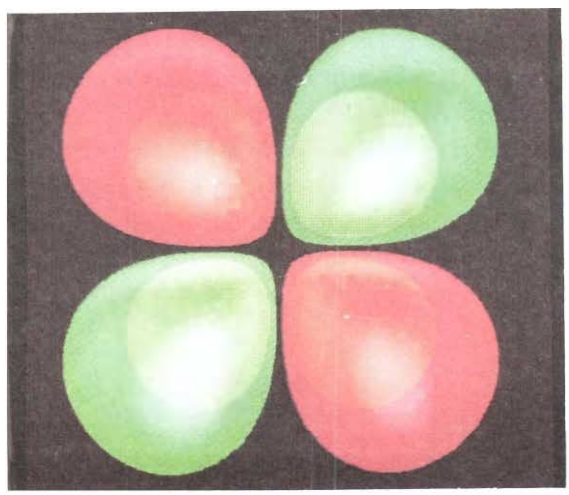
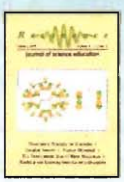




Front Cover



Chemical properties of molecules are often interpreted in terms of the shapes and energies of the wave functions corresponding to their highest occupied molecular orbital (HOMO) and the lowest unoccupied molecular orbital (LUMO). The cover picture shows schematic representations of the LUMOs of the fullerene C_{60} and benzene. Note that the LUMO of C_{60} has t_{1u} symmetry (triply degenerate) while the LUMO of benzene has e_{2u} symmetry (doubly degenerate). Only one orbital for each molecule is shown.

Back Cover

Erwin Rudolf Josef Alexander Schrödinger
(1887 – 1961)
(Illustration by Prema Iyer)

DEPARTMENTS