Copy of a printed diagram referenced as "A) The O-hybrids of the carbon atoms of benzene. B)  $\pi$  [pi] -atomic orbitals in benzene and the Kekule pairing schemes"

## **Contributors**

Fuller, Watson, 1935-

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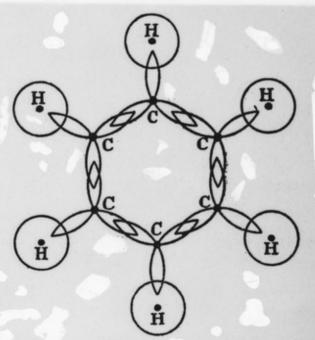
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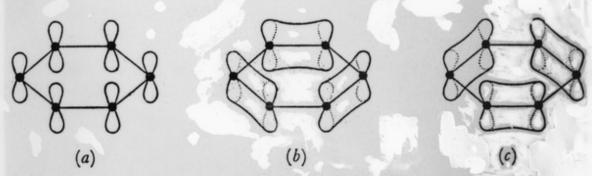
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Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org first, for historically it is much the older. There are obviously quite distinct ways in which we might pair the  $\pi$  orbitals in Fig. 2 (a). They are shown in Figs. 2 (b) and 2 (c). Neither of these systems which are 'structures' in the sense of 5.5 has any



The σ-hybrids of the carbon atoms of benzene.



The  $\pi$ -atomic orbitals in benzene (a), and the Kekulé pairing schemes (b, c).

greater merit than the other. Both must therefore appear in the complete wave function. Physically we may say that the benzene polecule behaves partly as if the bonds were in the one position and partly as if in the other.

This is a mathematical statement about the Schrödinger wave