Problem of the Day 06 Section 2.2 Question 2.07 (a)

Using the atoms of acetic anhydride, draw a structural isomer that contains all closed shell and uncharged atoms, and is a structure with at least two resonance contributors with all closed shell atoms. Draw the 3D orbital picture of the resonance contributor with uncharged atoms.



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This question does not have an easily-determined finite answer (which is an important idea to get used to - within the context of the given information, there can often be multiple answers that are consistent)

Some possible C₄H₆O₃ structural isomers with at least two closed shell resonance contributors:



