

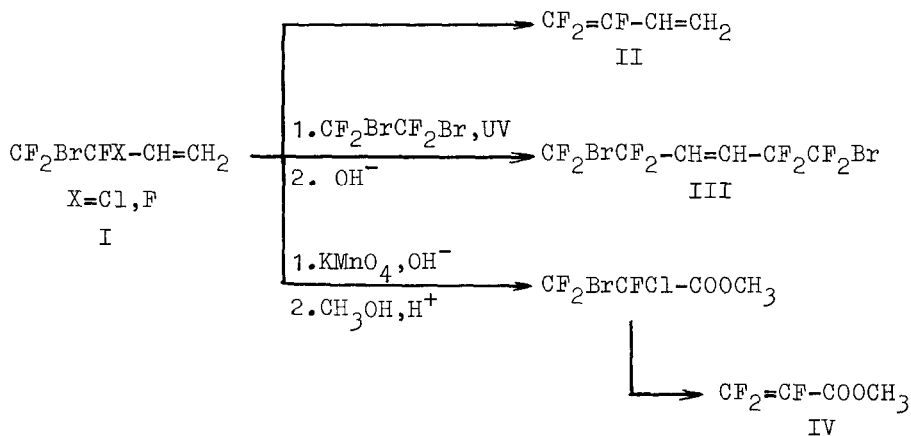
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UV-INITIATED ADDITION OF HALOGENOALKANES TO OLEFINS

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Halogenoalkanes $\text{CF}_2\text{BrCFXBr}$ ($\text{X}=\text{Cl}, \text{F}$) gave reasonable yields of addition products $\text{CF}_2\text{BrCFXCH}_2\text{CH}_2\text{Br}$ ($\text{X}=\text{Cl}, \text{F}$) in the UV-initiated reaction with ethylene. Dehydrobromination of the addition products provided butenes I used as starting materials for synthesis of 1,1,2-trifluoro-1,3-butadiene(II), 1,6-dibromo-1,1,2,2,5,5,6,6-octafluoro-3-hexene (III) and methyl trifluoroacrylate (IV) according to the following scheme:



Further examples of synthetic use of addition products will be reported.