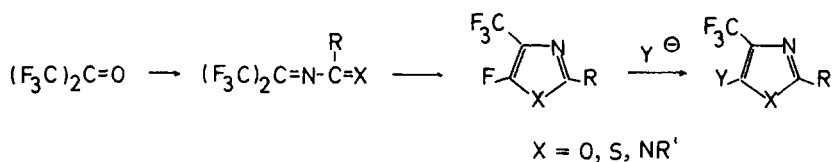


INTRODUCTION OF TRIFLUOROMETHYL GROUPS INTO HETEROCYCLIC COMPOUNDS

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Bis(trifluoromethyl)substituted hetero-1,3-dienes synthesized from hexafluoroacetone are cyclized by treatment with SnCl_2 to give five membered ring systems. The fluorine bonded to C-5 of the ring system can be replaced by various nucleophiles.



The reaction can be used for linearly joining ring systems as well as for annelation reactions. Mechanistic aspects are discussed.