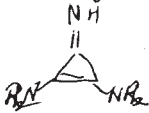


1 Highly strained System

Hückel System ( $2\pi$ )  
Hetero atom - part of system  $\longrightarrow$  New class of cyclopropenyl system

Pseudo guanidine



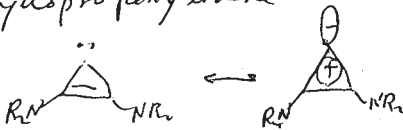
pseudo urea



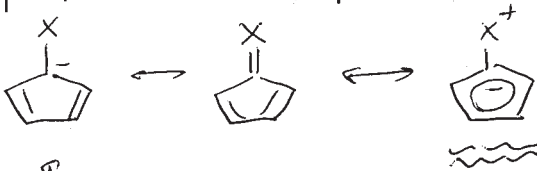
pseudo thiourea



Cyclopropenyl cation



2 Phosphaphulvene, Sulfaphulvene



3



sulfur participation

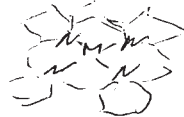
4

Contribution to Life Science

• Vitamin B12 model (M:Rh)

• Cytochrome c (M:Fe)

• Mg-chlorin as model of chlorophyll



Zeevi Yoslunde