

[DEPTH OF BIOLOGY]

## Sache-Mohr Theory.

• Theory of strainless Ring:

★ Stability of Higher cycloalkanes:  
(Like cyclohexane)

• Stability of cyclohexane & Higher members.

• Sache- & Mohr give this in 1918.

★ Difference from Baeyer Theory in:  
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① They assumed cycloalkane are not in a plane

② They are became strainless.

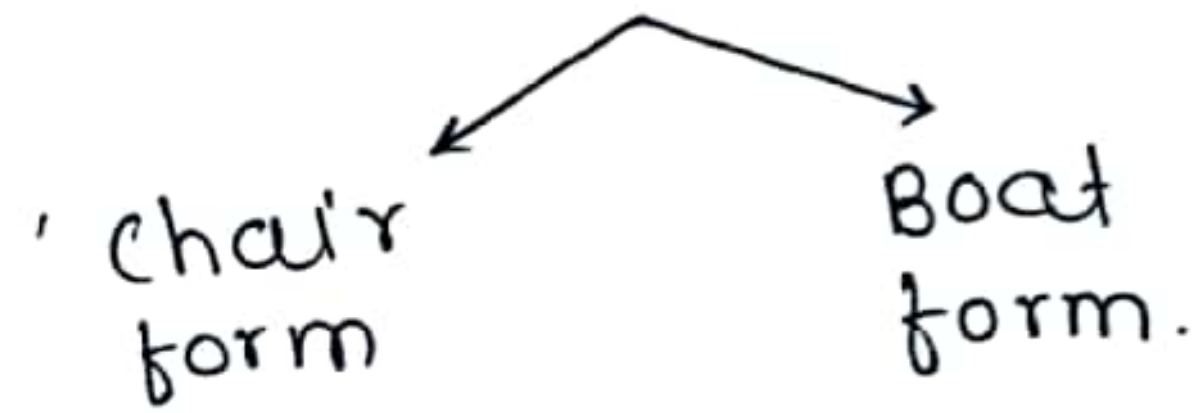
③ They assumed they are 'folded' (or) 'puckered' conditions.

④ Thus normal tetrahedral angle  $109^{\circ}28'$  retained  $\Rightarrow$  No strain.

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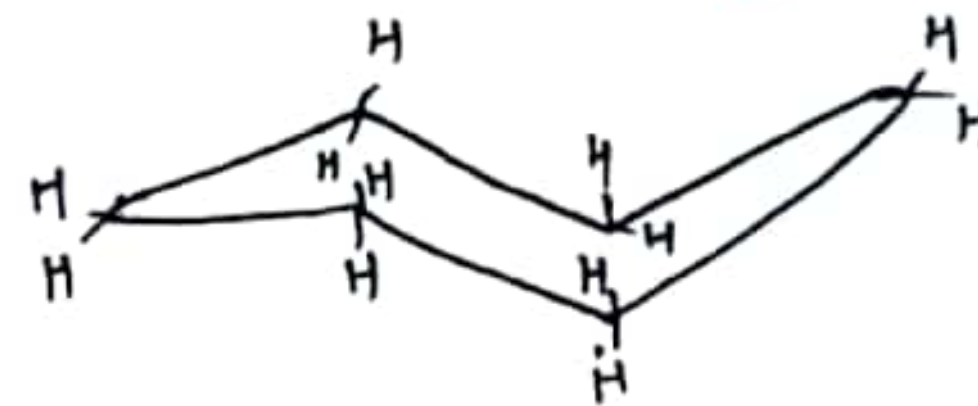
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⑤ Cycloalkanes in two forms  
(strainfree) (Non-planar)

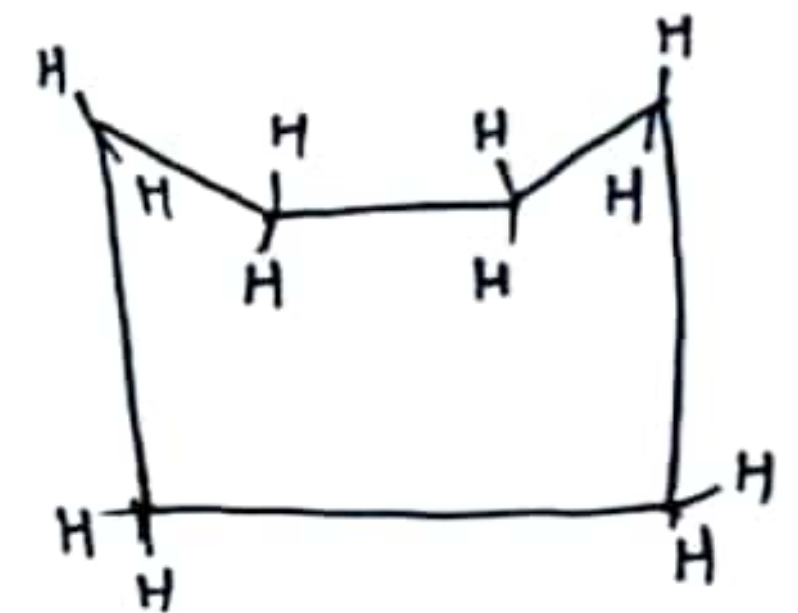


ex: cyclohexane.

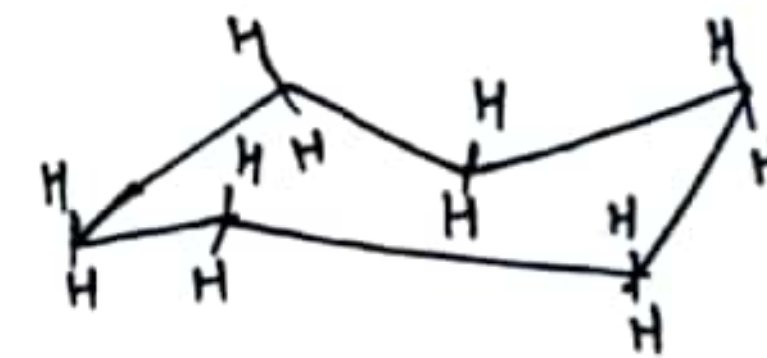
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Chair.



Boat



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