**supplement #5 : *Vocabulary Of Rotational & Ring Conformers***

#### Chemistry 3514 Organic Chemistry I

1. **Neumann Projection Language for Straight Chain Alkanes (page 80-85)**

energy increasing



 (A) (G)

(E2)

(E­1)

 E2

 ENERGY

 E1 E1

 G G

 A A

 0 60 120 180 240 300 360O

 0 60 120 180 240 300 360o

1. **Cycloalkane Conformation Language (pp 96-105)**



N

methyls can also be trans in equatorial positions (but less stable)

**WAYS TO DRAW CYCLOHEXANE GEOMETRY**



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