

"CHEMICAL BONDING"



8 electron



6 electron

↓
Short octet
Group IIIA element
in compound form
show short octet



10 electron
↓
extended octet

- a) NH₃
- b) SO₂
- c) AlCl₃
- d) B and C

- SHORT OCTETS ARE ALWAYS LEWIS ACID.
- EXTENDED OCTETS MAY OR MAY NOT BE LEWIS BASE.

ENERGETICS OF BOND FORMATION:

Formation

$\Delta H = -ve$

Energy released

So overallly energy less

So stability occurs.

Bond length

or Bond distance

or compromise bond distance.

Breakage

$\Delta H = +ve$

Heat absorbed.

Overall energy increases

Stability loses.

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VM Jensen



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Table of Contents Chemical Bonding Notes And Study Guide Answers Full Download

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 - The Rise of Digital Reading Chemical Bonding Notes And Study Guide Answers Full Download
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemical Bonding Notes And Study Guide Answers Full Download
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chemical Bonding Notes And Study Guide Answers Full Download
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemical Bonding Notes And Study Guide Answers Full Download
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 - Utilizing eBooks for Skill Development

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 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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