

Non-stoichiometric compounds

- Compounds with non-integer values of the atomic composition
- Large change of the properties depending on the non-stoichiometric character.

Example:

Stoichiometric	Non-stoichiometric
ZnO Transparent Insulator	$\text{Zn}_{1.000033}\text{O}$ Orange n-type semiconductor
NiO Green semiconductor	$\text{Ni}_{0.9999}\text{O}$ Black p-type hopping semiconductor

Origin of non-stoichiometry:

- Impurities. Example: NaCl heated in Na vapor $\rightarrow \text{Na}_{1+x}\text{Cl}$
- Variable valence of metal ions. Example: Transition metal compounds

COMPOUND	COMPOSITION RANGE
Fe_xO	$0.833 < x < 0.957$
TiO_x	$0.65 < x < 1.25$
TiO_x	$1.998 < x < 2.00$
Ni_xO	$0.95 < x < 1.000$
Zn_xO	$1.000 < x < 1.033$

Non Stoichiometric Compounds

Thirumalaisamy P.
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Table of Contents Non Stoichiometric Compounds

1. Understanding the eBook Non Stoichiometric Compounds
 - The Rise of Digital Reading Non Stoichiometric Compounds
 - Advantages of eBooks Over Traditional Books
2. Identifying Non Stoichiometric Compounds
 - 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 a Non Stoichiometric Compounds
 - User-Friendly Interface
4. Exploring eBook Recommendations from Non Stoichiometric Compounds
 - Personalized Recommendations
 - Non Stoichiometric Compounds User Reviews and Ratings
 - Non Stoichiometric Compounds and Bestseller Lists
5. Accessing Non Stoichiometric Compounds Free and Paid eBooks
 - Non Stoichiometric Compounds Public Domain eBooks
 - Non Stoichiometric Compounds eBook Subscription Services
 - Non Stoichiometric Compounds Budget-Friendly Options
6. Navigating Non Stoichiometric Compounds eBook Formats
 - ePub, PDF, MOBI, and More
 - Non Stoichiometric Compounds Compatibility with Devices
 - Non Stoichiometric Compounds Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Non Stoichiometric Compounds
 - Highlighting and Note-Taking Non Stoichiometric Compounds
 - Interactive Elements Non Stoichiometric Compounds
8. Staying Engaged with Non Stoichiometric Compounds

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Non Stoichiometric Compounds
- 9. Balancing eBooks and Physical Books Non Stoichiometric Compounds
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Non Stoichiometric Compounds
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Non Stoichiometric Compounds
 - Setting Reading Goals Non Stoichiometric Compounds
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Non Stoichiometric Compounds
 - Fact-Checking eBook Content of Non Stoichiometric Compounds
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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