

# Qualitative Analysis and Chemical Bonding

## Concepts:

- Chemical bonding
- Covalent bonding
- Ionic bonding
- Metallic bonding
- Crystal & chemical properties
- Electronegativity

## Introduction

- Study of atoms, molecules, crystal structures, properties: **Chemistry**
- In order to understand these, all atoms/molecules are made of atoms. Atoms are made of protons, neutrons, electrons.
- In order to study a system, we need to know its structure, energy, and how it interacts with its environment.

### Atomic Structure

- Atoms are made of protons, neutrons, electrons. Protons and neutrons are in the nucleus, electrons are in the electron cloud.
- Electrons are negatively charged, protons are positively charged, neutrons are neutral.
- Electrons are attracted to protons, protons are attracted to electrons, neutrons are attracted to both.
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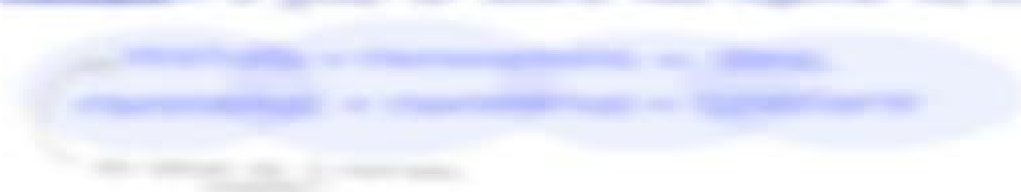


### Chemical Bonding

- Chemical bonding is the process of atoms interacting with each other to form molecules, crystals, and other structures.

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# Qualitative Analysis And Chemical Bonding Review Questions

**Surjani Wonorahardjo, Sari  
Karmina, Habiddin**



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that uses a variety of research designs methodologies and data sources to explore important questions about the relationship between teacher preparation inputs and outcomes      *Chemistry with Inorganic Qualitative Analysis* Therald Moeller, 1984

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