

# Atomic Structure and Interatomic Bonding

## (Chapter 2 of Callister)

Coordinator: An Mai, PhD, PEng



### What is an Atom?

#### A HISTORY OF THE ATOM: THEORIES AND MODELS

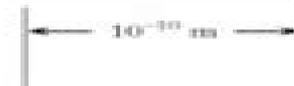
How have our ideas about atoms changed over the years? This graphic looks at atomic models and how they developed.

SOLID SPHERE MODEL	PLUM PUDDING MODEL	NUCLEAR MODEL	PLANETARY MODEL	QUANTUM MODEL
<b>JOHN DALTON</b>	<b>J.J. THOMSON</b>	<b>ERNEST RUTHERFORD</b>	<b>NIELS BOHR</b>	<b>ERWIN SCHRÖDINGER</b>
<b>1803</b>	<b>1904</b>	<b>1911</b>	<b>1913</b>	<b>1926</b>
<p>Atoms are made of tiny particles called molecules. These molecules are made of atoms. Atoms are the smallest particles which cannot be created or destroyed. Atoms are present in all matter.</p> <p>Atoms are made of tiny particles called molecules. These molecules are made of atoms. Atoms are the smallest particles which cannot be created or destroyed. Atoms are present in all matter.</p>	<p>Atoms are made of tiny particles called molecules. These molecules are made of atoms. Atoms are the smallest particles which cannot be created or destroyed. Atoms are present in all matter.</p> <p>Atoms are made of tiny particles called molecules. These molecules are made of atoms. Atoms are the smallest particles which cannot be created or destroyed. Atoms are present in all matter.</p>	<p>Atoms are made of tiny particles called molecules. These molecules are made of atoms. Atoms are the smallest particles which cannot be created or destroyed. Atoms are present in all matter.</p> <p>Atoms are made of tiny particles called molecules. These molecules are made of atoms. Atoms are the smallest particles which cannot be created or destroyed. Atoms are present in all matter.</p>	<p>Atoms are made of tiny particles called molecules. These molecules are made of atoms. Atoms are the smallest particles which cannot be created or destroyed. Atoms are present in all matter.</p> <p>Atoms are made of tiny particles called molecules. These molecules are made of atoms. Atoms are the smallest particles which cannot be created or destroyed. Atoms are present in all matter.</p>	<p>Atoms are made of tiny particles called molecules. These molecules are made of atoms. Atoms are the smallest particles which cannot be created or destroyed. Atoms are present in all matter.</p> <p>Atoms are made of tiny particles called molecules. These molecules are made of atoms. Atoms are the smallest particles which cannot be created or destroyed. Atoms are present in all matter.</p>
<p>✓ <b>ATOMS ARE INDIVISIBLE</b></p> <p>✓ <b>ATOMS ARE PRESENT IN ALL MATTER</b></p> <p>✗ <b>ATOMS ARE MADE OF TINY PARTICLES</b></p>	<p>✓ <b>ATOMS ARE MADE OF TINY PARTICLES</b></p> <p>✓ <b>ATOMS ARE PRESENT IN ALL MATTER</b></p> <p>✗ <b>ATOMS ARE INDIVISIBLE</b></p>	<p>✓ <b>ATOMS ARE MADE OF TINY PARTICLES</b></p> <p>✓ <b>ATOMS ARE PRESENT IN ALL MATTER</b></p> <p>✗ <b>ATOMS ARE INDIVISIBLE</b></p>	<p>✓ <b>ATOMS ARE MADE OF TINY PARTICLES</b></p> <p>✓ <b>ATOMS ARE PRESENT IN ALL MATTER</b></p> <p>✗ <b>ATOMS ARE INDIVISIBLE</b></p>	<p>✓ <b>ATOMS ARE MADE OF TINY PARTICLES</b></p> <p>✓ <b>ATOMS ARE PRESENT IN ALL MATTER</b></p> <p>✓ <b>PLUM PUDDING MODEL</b></p>

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### Atoms, Molecules, and Compounds



# Chapter 2 Atomic Structure Interatomic Bonding And

**LM Reder**



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