

Chapter 18 Air Pollution

Nature of the Atmosphere

- Layers
 - Stratosphere
 - Troposphere

Major Outdoor Air Pollutions

- History of air pollution
- Primary vs Secondary
- Major Outdoor Pollutants
 - CO, NO_x, SO₂, PM, O₃, VOCs
 - Sources
- Lead
- Industrial Smog
- Photochemical Smog
- Influences on Air pollution
 - Temperature inversion

Acid Deposition

- Wet vs dry deposition
 - Life span
- Regional vs Local
- Affects on Ecosystems
 - Terrestrial vs Aquatic
- Prevention approaches to reducing acid rain

Indoor Air Pollution

- Poor people
- Important Air pollutants
 - Fig 18-16
- Sick-building syndrome
- Four most dangerous pollutants
 - Tobacco smoke, formaldehyde, radon, and sm particles
- Radon Gas

Health Effects

- Asthma and Emphysema

Dealing with Air Pollution

- Clean Act Act
 - Major directives
- How Pollution Laws Can be Improved
- Cap-and-trade or emission trading
 - Pros and cons