

## Week 1 Reading Guide

Introduction to Fundamentals of Radiologic Science

### Bushong Ch 1

Nature of our surroundings

Matter and Energy

Matter

Atoms, molecules

Energy

Potential, Kinetic, Chemical, Electrical, Thermal, Nuclear, Electromagnetic.

Radiation

Electromagnetic radiation

Ionizing radiation

Sources of ionizing radiation

Discovery of X-rays

Development of Modern Radiology

Reports of Radiation Injury

Basic Radiation Protection

The Ten Commandments of Radiation Protection

The Diagnostic Imaging Team

### Bushong Ch 40, start pg 620

Reduction of Occupational Radiation Exposure

Occupational Radiation Monitoring

Occupational Radiation Monitoring Report

Protective Apparel

Position

Patient Holding

Pregnant Technologist/Radiologist

Management Principles

Review: Adler & Carlton Ch. 8 - Radiographic and Fluoroscopic Equipment

Ch 9. - Basic Radiation Protection and Radiology