Chapter 7:

- orbital and spin properties of planets
- properties of terrestrial and jovian planets
- radii, masses, and composition of terrestrial planets
- radii, masses, and composition of jovian planets and Sun
- asteroids, comets, Pluto and Kuiper Belt Objects

Chapter 8:

- gravitational contraction of gas cloud or nebula
- formation of disk (Solar Nebula) around newborn Sun
- condensation of solids according to temperature in disk
- accretion of solids into planetesimals
- formation of terrestrial planets
- formation of jovian planets
- formation of Earth’s Moon
- age of Solar System from radioactive dating
Chapter 9:

- terrestrial planet interiors
- seismic waves as probes of Earth’s interior
- metallic core by differentiation and origin of magnetic fields
- core, mantle, crust, lithosphere
- interior heating/cooling processes
- shaping terrestrial surfaces by cratering, volcanism, tectonics, erosion
- differences due to planetary size and distance from the Sun
- cratering on surfaces of Moon, Mercury
- Mars: evidence of volcanism, tectonics, past surface water
- Venus: evidence of volcanism, tectonics, past resurfacing
- Earth: plate tectonics and associated structures