1. Radiation Environments
   1. Solar Wind
      1. Origin of particles
      2. Particle species populations
      3. Particle differential flux spectra
      4. Impact of particles on electronics
   2. Galactic Cosmic Rays
      1. Origin of particles
      2. Particle populations
      3. Models (and dependencies – ie solar activity)
      4. Particle differential flux spectra
      5. Impact of particles on electronics
   3. Trapped Particles Environments
      1. Near-earth
         1. Origin of particles
         2. Particle populations
         3. Particle differential flux spectra
         4. Impact of particles on electronics
      2. Jovian Environment
         1. Origin of particles
         2. Particle populations
         3. Particle differential flux spectra
         4. Impact of particles on electronics
2. Basic Interaction Mechanisms
   1. Ion Transport
      1. Description of stopping power
      2. Modified Bethe-Bloch equation
      3. Description of stopping power vs incident energy
      4. Continuous slowing down approximation / range
      5. Description of stopping power versus range (Bragg curves)
   2. Electron Transport
      1. Emission of Cerenkov radiation
      2. Emission of bremsstrahlung radiation
      3. Importance of multiple scattering events
      4. Continuous energy loss versus scattering events
   3. ~~Photon Transport (done)~~