Introduction to Synchrotron Radiation

Settimio Mobilio
Physics Department, University Roma Tre
Via della vasca navale 84 Roma, I-00146 Italy

The basic process through which the electromagnetic radiation interacts with the matter are described. The main physical aspects and formula of absorption, photoemission, elastic and inelastic scattering are described. A very short introduction to the relativistic corrections and to magnetic scattering is given.