

Radiologic science for technologists : physics, biology and protection

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Abstrak

Radiologic physics -- Concepts of radiologic science -- Radiologic quantities and units -- Fundamentals of physics -- The atom -- Electromagnetic radiation -- Electricity and magnetism -- Electromagnetism -- The x-ray beam -- The x-ray imaging system -- The x-ray tube -- X-ray production -- X-ray emission -- X-ray interaction with matter -- The radiographic image -- Radiographic film -- Processing the latent image -- Intensifying screens -- Beam-restricting devices -- The grid -- Radiation exposure -- Image quality -- Radiographic technique -- Special imaging methods -- Special x-ray imaging -- Mammography -- Mammography quality control -- Fluoroscopy -- Interventional radiology -- Introduction to computer science -- Digital radiography -- Digital fluoroscopy -- Computed tomography -- Spiral computed tomography -- Quality control -- Image artifacts -- Radiation protection -- Human biology -- Fundamental principles of radiobiology -- Molecular and cellular radiobiology -- Early effects of radiation -- Late effects of radiation -- Health physics -- Designing for radiation protection -- Radiation protection procedures