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Nota di contenuto	Intro -- Contents -- Preface -- Introduction -- 1. Characteristic X-ray Radiation -- 1.1. Development of concepts of the atom structure -- 1.2. The equation for the energy of x-ray levels of the atom -- 1.3. Systematics of characteristic lines -- 1.4. Intensity of the lines of the characteristic spectrum -- 2. Bremsstrahlung -- 2.1. Spectral distribution of the intensity of bremsstrahlung -- 2.2. Spatial distribution of bremsstrahlung -- 2.3. Polarisation of bremsstrahlung -- 3. Sources of x-ray radiation -- 3.1. X-radiation excited by the electron beam. X-ray tubes -- 3.2. Excitation of x-radiation by the ion beam -- 3.2.1. Characteristic radiation -- 3.3. Radioactive sources of x-ray radiation -- 3.4. Synchrotron - a source of x-ray radiation -- 3.5. X-ray radiation of high-temperature plasma -- 3.6. X-ray lasers -- 4. Absorption of x-ray radiation -- 4.1. Electronic, partial and atomic coefficients of absorption -- 4.2. Absorption jumps -- 4.3. Structure of absorption edges -- 4.4. Linear and mass coefficient of attenuation of x-ray radiation -- 5. Scattering of x-ray radiation -- 5.1. Scattering of x-ray radiation on free electrons -- 5.2. The scattering of x-ray radiation on atoms -- 5.3. Intensity of x-ray radiation scattered by a thick specimen -- 5.4. Scattering of x-ray radiation by ordered structures -- 5.5. Resonance combination scattering of x-ray radiation

-- 6. Refraction and reflection of x-ray radiation -- 6.1. Theoretical fundamentals of studying dispersion -- 6.2. Refraction of x-rays -- 6.3. Total external reflection of x-ray radiation -- 6.4. Interference of x-ray radiation -- 6.5. Practical application of the optical properties of x-ray radiation -- 7. Free electrons, formed in irradiated material. Bremsstrahlung of these electrons -- 7.1. Photoelectrons -- 7.2. Auger electrons -- 7.3. Recoil electrons (Compton electrons). 7.4. Bremsstrahlung of photoelectrons, Auger electrons and recoil electrons -- 7.5. Comparison of spectral distributions of bremsstrahlung of photo-, Auger and Compton electrons -- 8. X ray fluorescence -- 8.1. Intensity of x-ray fluorescence -- 8.2. Effect of the particle size on the intensity of x-ray fluorescence -- 8.3. Effect of the element composition of the specimen on the intensity of x-ray fluorescence -- 8.4. Dependence of the intensity of x-ray fluorescence on primary radiation wavelength -- 8.5. Process of excitation of x-ray fluorescence for the case in which the areas of absorption of primary radiation and formation of a fluorescent photon coincide -- 8.6. Processes of excitation of x-ray fluorescence for the case in which the areas of interaction of primary radiation and formation of the fluorescent photon differ -- 8.7. Selective absorption of primary radiation -- 8.8. Perturbing effect of elements on the intensity of x-ray fluorescence -- 8.9. Excitation of x-ray fluorescence by polychromatic primary radiation -- 8.10. Special features of the excitation of x-ray fluorescence of elements with low atomic numbers -- Conclusions -- References -- Index.

Sommario/riassunto

The theory of the formation of characteristic and braking X-ray radiation is described. Special features of a number of sources of this radiation are discussed. Special attention is given to the interaction of X-ray radiation with matter (processes of absorption, scattering, refraction and reflection). The problems of excitation of X-ray fluorescence and its dependence on a number of factor is studied.