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Autore	Hentea Mariana
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Autore	Berestetskii V. B (Vladimir Borisovich)
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Altri autori (Persone)	LifshitsE. M (Evgenii Mikhailovich) PitaevskiiL. P (Lev Petrovich) BerestetskiiV. B (Vladimir Borisovich) SykesJ. B (John Bradbury) BellJ. S
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of Dirac's equation; 22. Algebra of Dirac matrices; 23. Plane waves; 24. Spherical waves
25. The relation between the spin and the statistics 26. Charge conjugation and time reversal of spinors; 27. Internal symmetry of particles and antiparticles; 28. Bilinear forms; 29. The polarization density matrix; 30. Neutrinos; 31. The wave equation for a particle with spin 3/2; CHAPTER IV. PARTICLES IN AN EXTERNAL FIELD; 32. Dirac's equation for an electron in an external field; 33: Expansion in powers of 1/c; 34. Fine structure of levels of the hydrogen atom; 35. Motion in a centrally symmetric field; 36. Motion in a Coulomb field; 37. Scattering in a centrally symmetric field
38. Scattering in the ultra-relativistic case 39. The continuous-spectrum wave functions for scattering in a Coulomb field; 40. An electron in the field of an electromagnetic plane wave; 41. Motion of spin in an external field; 42. Neutron scattering in an electric field; CHAPTER V. RADIATION; 43. The electromagnetic interaction operator; 44. Emission and absorption; 45. Dipole radiation; 46. Electric multipole radiation; 47. Magnetic multipole radiation; 48. Angular distribution and polarization of the radiation; 49. Radiation from atoms: the electric type
50. Radiation from atoms: the magnetic type51. Radiation from atoms: the Zeeman and Stark effects; 52. Radiation from atoms: the hydrogen atom; 53. Radiation from diatomic molecules: electronic spectra; 54. Radiation from diatomic molecules: vibrational and rotational spectra; 55. Radiation from nuclei; 56. The photoelectric effect: non-relativistic case; 57. The photoelectric effect: relativistic case; 58. Photodisintegration of the deuteron; CHAPTER VI. SCATTERING OF RADIATION; 59. The scattering tensor; 60. Scattering by freely oriented systems; 61. Scattering by molecules
62. Natural width of spectral lines

Sommario/riassunto

Several significant additions have been made to the second edition, including the operator method of calculating the bremsstrahlung cross-section, the calculation of the probabilities of photon-induced pair production and photon decay in a magneticfield, the asymptotic form of the scattering amplitudes at high energies, inelastic scattering of electrons by hadrons, and the transformation of electron-positron pairs into hadrons.