The Electron Optical Properties of the Round Magnetic Electron Lens

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ABSTRACT
Five magnetic electron lenses have been suggested. Each one has round cross section of the iron circuit and of the energizing coil. The axial magnetic flux density distribution and the trajectory of flux lines of these lenses have been studied and the objective and the projector optical properties have been computed as well. The study reveals that these lenses have the electron optical properties different from that of the other lenses of the traditional design.