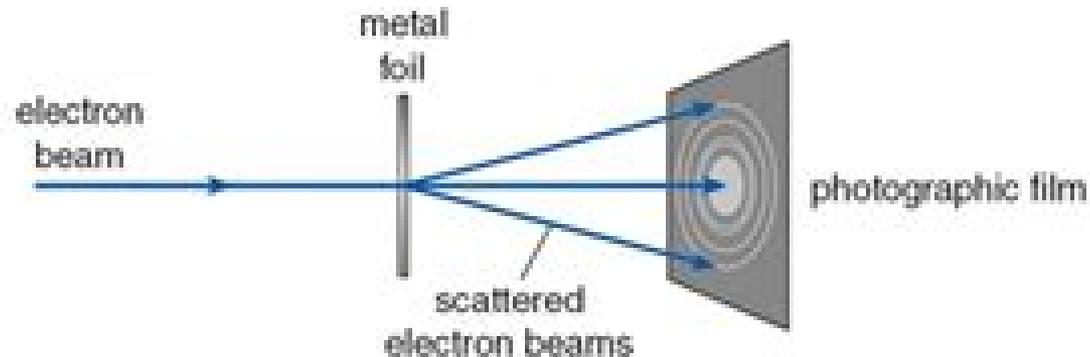
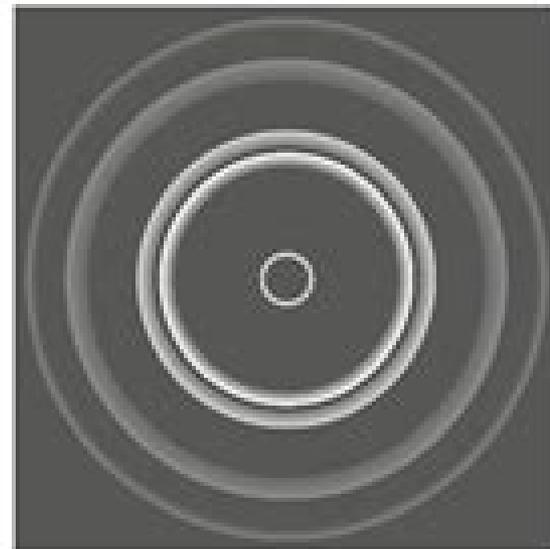
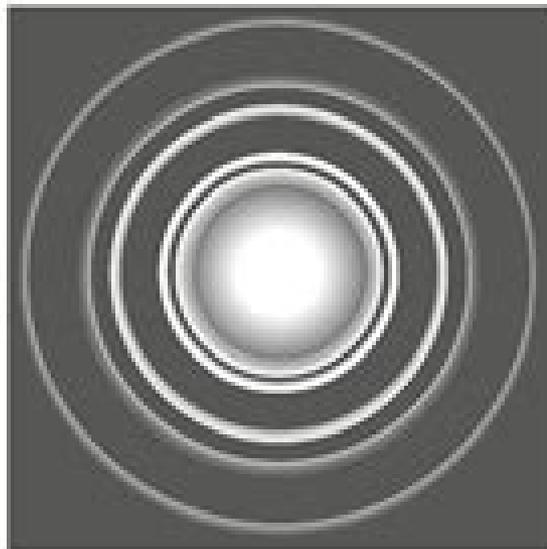


Electron diffraction: the evidence of matter waves



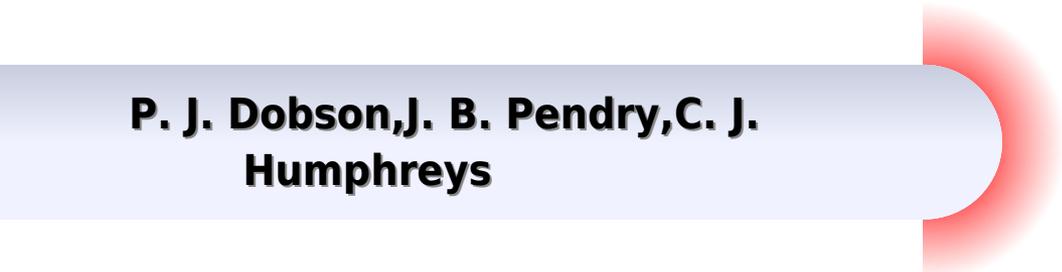
The electron diffraction experiment by George Thomson



Diffraction rings formed by a beam of electrons (left) and a beam of X-rays (right) through the same metal foil

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are also treated Part 5 of the volume contains introductory treatments of the theory of the interaction of radiation with matter dynamical theory as applied to X ray electron and neutron diffraction techniques The simplified trigonometric expressions for the structure factors in the 230 three dimensional space groups which appeared in Volume I of International Tables for X ray Crystallography are now given in Appendix 1 4 3 to Chapter 1 4 of this volume Volume B is a vital addition to the library of scientists engaged in crystal structure determination crystallographic computing crystal physics and other fields of crystallographic research Graduate students specializing in crystallography will find much material suitable for self study and a rich source of references to the relevant literature

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Microstructural Characterization of Materials by Non-microscopical Techniques N. Hessel Andersen, 1984
Electron Microscopy and Analysis 1993, Proceedings of the Institute of Physics Electron Microscopy and Analysis Group Conference, University of Liverpool, 14-17 September 1993 A. J. Craven, 1994 These proceedings cover developments in imaging diffraction and spectroscopy in the electron microscope together complementary and competing techniques such as scanning optical and scanning stylus microscopies A valuable reference source for researchers involved in the use of electron microscopy in physics materials science and chemistry

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