



# Structure Analysis by Electron Diffraction

*B. K. Vainshtein*

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## **Structure Analysis by Electron Diffraction** B. K. Vainshtein

Structure Analysis by Electron Diffraction focuses on the theory and practice of studying the atomic structure of crystalline substances through electron diffraction.

The publication first offers information on diffraction methods in structure analysis and the geometrical theory of electron diffraction patterns. Discussions focus on the fundamental concepts of the theory of scattering and structure analysis of crystals, structure analysis by electron diffraction, formation of spot electron diffraction patterns, electron diffraction texture patterns, and polycrystalline electron diffraction patterns. The text then ponders on intensities of reflections, including atomic scattering, temperature factor, structure amplitude, experimental measurements of intensity, and review of equations for intensities of reflections in electron diffraction patterns.

The manuscript examines the Fourier methods in electron diffraction and experimental electron diffraction structure investigations. Topics include the determination of the structure of the hydrated chlorides of transition metals; structures of carbides and nitrides of certain metals and semi-conducting alloys; electron diffraction investigation of clay minerals; and possibilities inherent in structure analysis by electron diffraction.

The book is a helpful source of data for readers interested in structure analysis by electron diffraction.

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