

theory. The book is illustrated throughout by examples of experimental patterns. The first half of the volume consists of a systematic development of dynamical diffraction theory, including discussions of the failure of Bragg's law, the concept of dispersion surfaces, diffraction into higher-order Laue zones, and applications such as channeling, accurate measurement of structure factors, critical voltages, polarity determination, and local measurements of strain and composition. A detailed exposition of methods for symmetry determination follows. Subsequent chapters include an authoritative survey of the current status of and prospects for coherent nanodiffraction and a discussion of new instrumentation. Throughout the book, a quantitative approach to diffraction is reinforced through the use of precisely defined units of measurement, physical constants, and phase factors. The computer programs used for dynamical calculations are listed in a lengthy appendix, with examples of the output distributed throughout the text. Other appendices provide a summary of the relationships in dynamical theory, crystallographic data, and a valuable bibliography of convergent-beam electron diffraction applications indexed by material.

Although perhaps too advanced for beginners, *Electron Microdiffraction* is a valuable resource and will prove indispensable for workers in this rapidly evolving field.

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