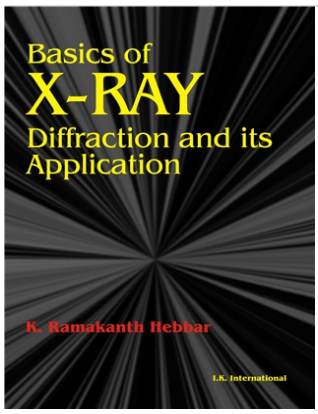
Book Information Sheet



Basics of X-Ray Diffraction and its Applications, 1/e

K. Ramakanth Hebbar

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About the Book

Starting with the history of the discovery of X-rays by Roentgen and the subsequent formalization of diffraction laws by Von Laue, Bragg and others, it covers the essential fundamentals of crystallography and the theory of X-ray generation and of the inte

Salient Features

- The book deals the important applications of x-ray diffraction including Laue technique, rotating crystal, powder techniques, determination of crystal structure, order-disorder transformation, phase diagram determination and so on.
- Basic background on x-ray history, generation of x-rays and x-ray diffraction theory have been given.
- Every chapter contains solved and unsolved examples, and exercises.
- The book is well-illustrated with functional diagrams.

Table of Contents

- Introduction
- Crystallography and Stereographic Projection
- Generation and Nature of X-rays
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- Laue Techniques
- Rotating Crystal Technique
- Powder Techniques
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- Determination of Crystal Structure and Lattice Pa

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