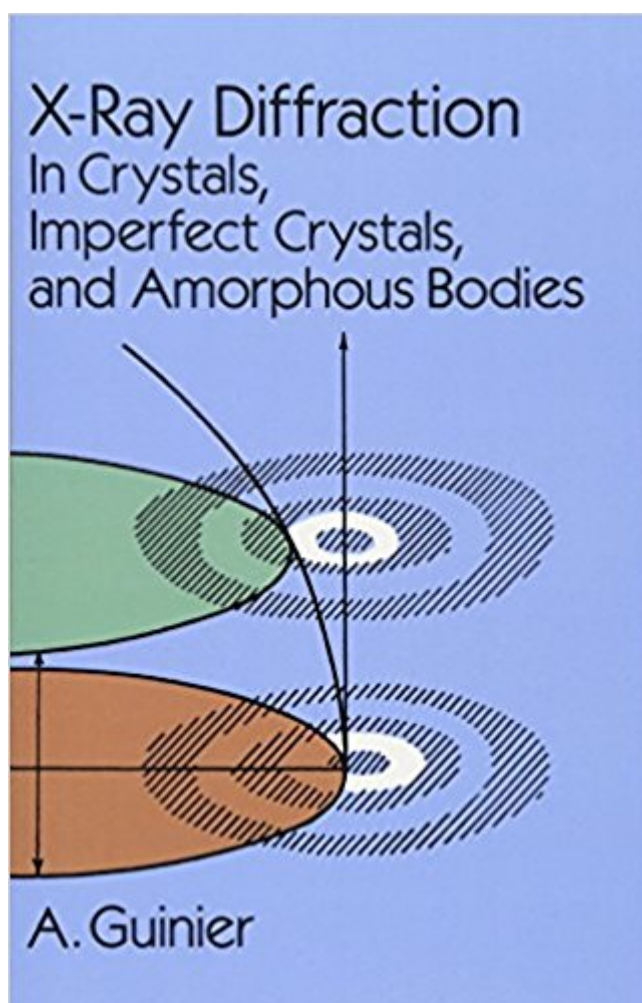


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X-Ray Diffraction: In Crystals, Imperfect Crystals, And Amorphous Bodies (Dover Books On Physics)



Synopsis

This valuable text begins with the general theory of diffraction through the use of Fourier transforms. The author then applies the general results to various atomic structures including amorphous bodies, crystals, and imperfect crystals, whereby the elementary laws of x-ray diffraction from ideal structures follow as a special case. The presentation has been carefully developed to illustrate clearly the meaning of the general equations essential for the study of more complex cases. Readers are assumed to be familiar with the elements of crystallography and x-ray diffraction, and the author has not discussed the problem of determining crystal structures. Rather the focus is on the great variety of imperfect crystals as well as amorphous bodies and liquids. The book should thus be especially useful solid-state physicists, materials scientists, chemists, and biologists with an interest in the scattering from defective structures. More generally, it will benefit all who require a thorough understanding of diffraction theory in order to interpret properly the information provided by modern x-ray diffraction instruments on line profiles, line intensities, diffuse scattering and other phenomena associated with disorder.

Book Information

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Customer Reviews

Text: English (translation) Original Language: French

Well...this book is definitely a "must have" book on diffraction if you're interested in this field. Dr. Guiner, for those who are not familiar with diffraction, was one of the leading scientist in the field and

contributed much to the development of x-ray diffractometry. The book is definitely not for the beginner. However, for someone who has made his/her initial steps into the world of x-ray crystallography, this book might be rewarding to read for it discusses the fundamentals rigorously. The book is very affordable as well, making it a very attractive buy indeed...I highly recommend it.

This book is an advanced treatment of x-ray diffraction, which should adorn the bookshelves of x-ray diffractionists. It is a pleasure to see that such a diffraction classic is very affordable, thanks to Dover Publications. It is a "best buy" indeed since it offers a lot of substance for its price. The uninitiated reader in X-ray diffractometry should approach it with caution, however. It is by no means a textbook. Those who have a well-founded working knowledge in X-ray diffraction, on the other hand, may want to read this book because it elaborates on the underlying principles with utmost rigour. I highly recommend this book. Entropy4Life

Together with Warren's "X-ray diffraction", this small but complete textbook on x-ray diffraction is a must. Guinier (the same one of the Guinier-Preston zones) explains with detail and completeness the mathematical and physical treatment of diffraction in ideal and real crystals and polycrystalline materials.

Good for use and arrive fast

If you like equations, well, this is the book to read about X Ray diffraction. Very good if you like details and maths!

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