



The Basics of Crystallography and Diffraction: Third Edition (International Union of Crystallography Texts on Crystallography)

By Christopher Hammond

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This book provides a clear introduction to topics which are essential to students in a wide range of scientific disciplines but which are otherwise only covered in specialised and mathematically detailed texts. It shows how crystal structures may be built up from simple ideas of atomic packing and co-ordination, it develops the concepts of crystal symmetry, point and space groups by way of two dimensional examples of patterns and tilings, it explains the concept of the reciprocal lattice in simple terms and shows its importance in an understanding of light, X-ray and electron diffraction. Practical examples of the applications of these techniques are described and also the importance of diffraction in the performance of optical instruments.

The book is also of value to the general reader since it shows, by biographical and historical references, how the subject has developed and thereby indicates some of the excitement of scientific discovery.

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Editorial Review

Review

Review from previous edition: "This is a timely, well-constructed book which should be seriously considered by every teacher of crystallography and can be recommended to anyone who wants to get to grips with crystallography and diffraction." --Journal of Microscopy

"The book is aimed at students in all the disciplines which use crystallographic methods. If they are seriously interested in crystallography, this book is as close to ideal as they are likely to get, and very good value too. I thoroughly recommend Hammond's book as an enjoyable way of re-visiting old haunts." --J.E.Chisholm, Mineralogical Magazine

"The fundamentals of crystallography and diffraction are set out in a convincing way in this book. The author has succeeded in explaining the two fields in a very communicative and relatively condensed way." -- Journal Solid State Electrochemistry

"Throughout, this book is well written and thoughtfully illustrated. It provides an excellent grounding in crystallography. It may be the only book that bewildered non-crystallographers need." --Microscopy and Imaging News

About the Author

Christopher Hammond is a Senior Lecturer at the Institute for Materials Research, at Leeds University, UK.

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