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Fundamentals of Crystallography (International Union of Crystallography Monographs on Crystallography)

By Carmelo Giacovazzo, Hugo Luis Monaco, Gilberto Artioli, Davide Viterbo, Marco Milanese, Gastone Gilli, Paola Gilli, Giuseppe Zanotti, Giovanni Ferraris



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Crystallography is an interdisciplinary science covering a wide area, from biology to earth sciences, mathematics and materials science. Its role is growing, owing to the contribution crystallography can offer to the understanding of such diverse fields as biological structures, high-temperature superconductors, mineral properties, and phase transitions. The book describes both the theoretical bases and applications of different areas interacting with crystallography. As with the first and second editions, it is organized as a collection of chapters written by recognized specialists, with all contributions being harmonized into a unified whole. The main text is devoted to the presentation of basics; the appendices deal with specialist aspects. In this third edition topics have been updated so as to document the present state of the art: emphasis is placed upon areas of current research.

To facilitate learning and make teaching more effective, new illustrations have been introduced. As with the second edition, a software package is included via the book's OUP web site: modern graphics will help users to better understand the basics of this science via three-dimensional images, simulation of experiments, and exercises.



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Editorial Review

Review

Review from previous edition: "A new research worker could turn to the appropriate chapter and find a description of how to tackle real problems ... this book is an excellent crystallography text, both for those involved with the subject in a practical sense or those that require fundamental information on the subject ... it has that rare quality that the more it is read, the better it seems. It deserves a place on the shelf of all those involved in, or interested in, crystallography." --Materials World

"This completely revised text offers a rigorous treatment of the theory and describes experimental applications in many fields ... An advanced and carefully written text on modern fundamentals of crystallography." --Zeitschrift für Kristallographie

"This is a remarkable text. It is a tribute at once to the wide reach of crystallography over many branches of science and to the contemporary vigor and vitality of Italian crystallography and crystallographers." --Acta Crystallographica

"... there is a good balance achieved between well-illustrated description and mathematical rigour. Established crystallographers will find it a handy reference manual, while at the same time the text remains accessible and informative reading for undergraduates with an interest in crystallography." --The Times Higher Education Supplement

About the Author

Carmelo Giacovazzo, Full Professor of Mineralogy. Director of CNR - IC Institute from 1992 to 2008. President of the European Crystallographic Association from 1997 to 2000. Winner of the European Prize Italgas 1996 for Scientific Research and Innovation; European Crystallographic Association Prize 2003. Editor of the international reviews: *Zeitschrift für Kristallographie* and *Croatica Chemica Acta*. Research areas: Methods in Crystallography, with specific interest in the development of methods aiming at solving crystal structures from single crystal and powder diffraction data. Electron and neutron diffraction. Scientific papers: about 300 in international journals. Produced software used in about 2000 scientific groups or institutions.

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