



Basic Concepts of Crystallography

By Emil Zolotoyabko

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Written by an experienced university teacher, this textbook is based on the author's lectures, and is designed to answer students' questions rather than delving into obscure details. The well-balanced approach gives precedence to a visual, intuitive understanding, with only as much math as is necessary. The author covers the topic of symmetry in crystals from basic elements to physical properties, backed by numerous clear-cut illustrations and easy-to-read crystallographic tables.

The result is a compact and self-contained treatment suitable for crystallography courses in physics, chemistry, materials science and biology - irrespective of the academic background.

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Basic Concepts of Crystallography By Emil Zolotoyabko Bibliography

- Sales Rank: #3524194 in Books
- Brand: Brand: Wiley-VCH
- Published on: 2011-06-27
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x .50" w x 6.70" l, 1.18 pounds
- Binding: Paperback
- 276 pages

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Editorial Review

Review

Emil Zolotoyabko's book [...] is extremely useful for all who want to get acquainted with crystal symmetry. I found this book extremely valuable and will revise and expand some of the chapters for my lectures. As an introduction to the "Basic Concepts of Crystallography" this book is recommended to any student in science and engineering.

Prof. Gerd Meyer, University of Cologne

From the Back Cover

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From the contents:

- * Real Space and Reciprocal Space
- * Crystallographic Calculations, Stereographic Projection
- * Basic Symmetry Elements and their Combinations
- * Point Groups
- * Bravais Lattices
- * Space Groups
- * Symmetry and Physical Properties of Crystals
- * Properties Described by Tensors of First, Second, Third, and Fourth Rank
- * Reduction of Crystal Symmetry in External Fields
- * Twinning in Crystals

About the Author

Emil Zolotoyabko is Professor in the Department of Materials Engineering at the Technion - Israel Institute of Technology (Haifa). He is holder of the Abraham Tulin Academic Chair and recipient of the 2001 Henry Taub Prize for Academic Excellence. Emil Zolotoyabko has authored more than 150 scientific publications, one book, and four chapters in books devoted to the development of new X-ray diffraction methods and their applications for studying the structure and dynamical characteristics of different materials systems.

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