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General description. This second edition explains how scientists discover the structures of the macromolecules. Scientists do not see these molecules directly. Instead, they build models as a means of interpreting data from x-ray diffraction by crystals, or by irradiation by other forms of energy. Users of these models need to know how they are obtained in order to know what they are seeing when they study a model of a macromolecule.

[Crystallography Made Crystal Clear, 2nd ed. | Sigma-Aldrich](#)

Crystallography Made Crystal Clear makes crystallography accessible to readers who have no prior knowledge of the field or its mathematical basis. This is the most comprehensive and concise reference for beginning Macromolecular crystallographers, written by a leading expert in the field.

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The understanding of these concepts will foster wise use of the models, including the recognition of the strengths and weaknesses of pictures or computer graphics. Since proteins comprise the majority of the mass of macromolecules in cells and carry out biologically important tasks, the book will be of interest to biologists. Show less. Crystallography Made Crystal Clear is designed to meet the need for an X-ray analysis that is between brief textbook sections and complete treatments.

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Crystallography Made Crystal Clear is designed to meet the need for an X-ray analysis that is between brief textbook sections and complete treatments. The book provides non-crystallographers with an intellectually satisfying explanation of the principles of how protein models are gleaned from X-ray analysis.

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Crystallography Made Crystal Clear makes crystallography accessible to readers who have no prior knowledge of the field or its mathematical basis. This is the most comprehensive and concise reference for beginning Macromolecular crystallographers, written by a leading expert in the field. Rhodes' uses visual and geometric models to help readers understand the mathematics that form the basis of x-ray crystallography.

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Gale Rhodes makes crystallography accessible to readers who have no prior knowledge of the field, or its mathematical basis. The second edition of Crystallography Made Crystal Clear has been fully updated and expanded to make it the most comprehensive and concise reference for beginning crystallographers. The book also introduces essential World Wide Web tools for users of models, including beginning-level tutorials in molecular modeling on personal computers.

### ~~Crystallography Made Crystal Clear, Second Edition: A ...~~

Crystallography Made Crystal Clear, Second Edition: A Guide for Users of Macromolecular Models (Complementary Science) 2nd edition by Rhodes, Gale (1999) Paperback

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Crystallography Made Crystal Clear bridges the gap between brief chapters and textbooks in biochemistry and proteins and complete treatments aimed at the professional crystallographer. Much of the book reads like a transcript of discussions between a wise and tolerant old crystallographer walking a novice through his/her first structure determination.

### ~~Crystallography Made Crystal Clear~~

Since the first edition of Crystallography Made Crystal Clear in 1993, this book has become something of a minor classic to many biomedical scientists; it has only improved through the second and, now, third edition. The acclaim this book received is no surprise: since the early 1990s, the number of protein structures solved and posted in the Protein Data Bank has gone from less than 1000 or so to over 45,000.

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Crystallography Made Crystal Clear Features. Second edition. Author: Gale Rhodes. Publisher: Academic Press 1993. ISBN: 0-12-587072-8. Description. This book is an exciting resource for those who are vitally interested in macromolecular models derived from X-ray crystallography but are unfamiliar with, or daunted by, crystallography itself.

### ~~Crystallography Made Crystal Clear~~

62 Crystallography Made Crystal Clear by Gale 1993 Rhodes. p p 202. Academic Press, London. ISBN 0-12-587075-2 In recent years biochemists have grown accustomed to seeing pictures of three dimensional macromolecular structures illustrating the majority of standard textbooks.

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Crystallography Made Crystal Clear, Second Edition: A Guide for Users of Macromolecular Models (Complementary Science)€ Publisher: Academic Press; 2 edition (December 13, 1999) Language: English Pages: 286 Size: 24.36 MB Format: PDF / ePub / Kindle Macromolecules are the proteins and nucleic acids upon which life depends.

### ~~Crystallography Made Crystal Clear, Second Edition: A ...~~

Description. Crystallography Made Crystal Clear makes crystallography accessible to readers who have no prior knowledge of the field or its mathematical basis. This is the most comprehensive and concise reference for beginning Macromolecular crystallographers, written by a leading expert in the field. Rhodes' uses visual and geometric models to help readers understand the mathematics that form the basis of x-ray crystallography.

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