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. He has invested a great deal of time and effort on World Wide Web tools for users of models, including beginning-level tutorials in molecular modeling on personal computers. Rhodes’ personal CMCC Home Page also provides access to tools and links to resources discussed in the text. Most significantly, the final chapter introduces the reader to macromolecular modeling on personal computers—featuring SwissPdbViewer, a free, powerful modeling program now available for PC, Power Macintosh, and Unix computers. This updated and expanded new edition uses attractive four-color art, web tool access for further study, and concise language to explain the basis of X-ray crystallography, increasingly vital in today’s research labs. * Helps readers to understand where models come from, so they don’t use them blindly and inappropriately * Provides many visual and geometric models for understanding a largely mathematical method * Allows readers to judge whether recently published models are of sufficiently high quality and detail to be useful in their own work * Allows readers to study macromolecular structure independently and in an open-ended fashion on their own computers, without being limited to textbook or journals illustrations * Provides access to web tools in a format that will not go out of date. Links will be updated and added as existing resources change location or are added

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While Crystallography made Crystal Clear by Gale Rhodes is certainly easy to read, it oversimplifies things and introduces a few inaccuracies. It falls short to make the student really understand crystallography, which, in my opinion, is not a good thing for a textbook. On the other hand, I have made the experience that, unfortunately, many students are happy with only a superficial knowledge of the basic theory (I have been teaching crystallography for about a decade now) and this book helps with this attitude. My advice: if you just want to pass the class and don’t care about the subject, go with this book. If, however, you really want to understand what crystallography is about, you need to read either the great beginner’s book by Werner Massa: Crystal Structure Determination or the more protein crystallography oriented but equally great beginners book by Jenny Glusker and Kenneth Trueblood: Crystal Structure Analysis -- A Primer. Once you have digested the Massa or the Glusker/Trueblood, you can work your way through the book edited by Carmelo Giacovazzo: Fundamentals of Crystallography. After reading and understanding the Massa or Glusker/Trueblood and the Giacovazzo, you’ll be ready to survive a discussion with any crystallographer any time. (What is more: you will enjoy the discussion!)

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