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Crystallographers use the properties and inner structures of crystals to determine

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*Timeline of crystallography - Wikipedia*

The book "Crystallography in Modern Chemistry - Resource Book of Crystal Structures" by Thomas W.C. Mak and Gong-Du Zhou (John Wiley & Sons, Inc., New York, 1992, ISBN 0-471-54702-6) is always on my bookshelf - and I constantly refer to it. Why? The answer is simple: It

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Clear, concise explanation of logical development of basic crystallographic concepts. Topics include crystals and lattices, symmetry, x-ray diffraction, and more. Problems, with answers. 114 illustrations. 1969 edition.

This volume summarises recent developments and possible future directions for small molecule X-ray crystallography. It reviews specific areas of crystallography which are rapidly developing and places them in a historical context. The interdisciplinary nature of the technique is emphasised throughout. It introduces and describes the chemical

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crystallographic and synchrotron facilities which have been at the cutting edge of the subject in recent decades. The introduction of new computer-based algorithms has proved to be very influential and stimulated and accelerated the growth of new areas of science. The challenges which will arise from the acquisition of ever larger databases are considered and the potential impact of artificial intelligence techniques stressed. Recent advances in the refinement and analysis of X-ray crystal structures are highlighted. In addition the recent developments in time resolved single crystal X-ray crystallography are discussed. Recent years have demonstrated how this technique has provided important mechanistic information on solid-state reactions and complements information from traditional spectroscopic measurements. The volume highlights



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how the prospect of being able to routinely “watch” chemical processes as they occur provides an exciting possibility for the future. Recent advances in X-ray sources and detectors that have also contributed to the possibility of dynamic single-crystal X-ray diffraction methods are presented. The coupling of crystallography and quantum chemical calculations provides detailed information about electron distributions in crystals and has resulted in a more detailed understanding of chemical bonding. The volume will be of interest to chemists and crystallographers with an interest in the synthesis, characterisation and physical and catalytic properties of solid-state materials. Postgraduate students entering the field will benefit from a historical introduction to the subject and a description of those techniques which are currently used. Since X-ray crystallography is used so widely in

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modern chemistry it will serve to alert senior chemists to those developments which will become routine in coming decades. It will also be of interest to the broad community of computational chemists who study chemical systems.

A revised and updated English edition of a textbook based on teaching at the final year undergraduate and graduate level. It presents structure and bonding, generalizations of structural trends, crystallographic data, as well as highlights from the recent literature.

The present work offers a snapshot of the state-of-the-art of crystallographic, analytical, and computational methods used in modern drug design and development. Topics discussed include: drug design against complex systems (membrane proteins, cell surface

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receptors, epigenetic targets, and ribosomes); modulation of protein-protein interactions; the impact of small molecule structures in drug discovery and the application of concepts such as molecular geometry, conformation, and flexibility to drug design; methodologies for understanding and characterizing protein states and protein-ligand interactions during the drug design process; and monoclonal antibody therapies. These methods are illustrated through their application to problems of medical and biological significance, such as viral and bacterial infections, diabetes, autoimmune disease, and CNS diseases. As approaches to drug discovery have changed over time, so have the methodologies used to solve the varied, new, and difficult problems encountered in drug discovery. In recent years we have seen great progress in the fields of genetics, biology, chemistry, and

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medicine, but there are still many unmet medical needs, from bacterial infections to cancer to chronic maladies, that require novel, different, or better therapies. This work will be of interest to researchers and policy makers interested in the latest developments in drug design.

A textbook for the student beginning a serious study of X-ray crystallography.

The pharmaceutical industry has become acutely aware of the importance of the solid state, but pharmaceutical scientists often lack specific training in topics related to solid-state structure and crystallography. This book provides needed support in this topical area. Taking an intuitive and informal approach to solid-state structure and crystallographic concepts, this book is written for anyone who needs a clear understanding of

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modern crystallography, with specific reference to small-molecule pharmaceutical solids. The author describes molecular crystals and crystal structures, symmetry, space groups, single-crystal and powder X-ray diffraction techniques and the analysis and interpretation of crystallographic data. Useful technical details are presented where necessary and case studies from the pharmaceutical literature put theory into a practical context. Written by an internationally leading figure and with its focus on molecular crystals, this book is equally applicable to chemists with a need to understand and apply X-ray crystal-structure determination.

The modern applications of X-ray crystallography range from drug design to characterisation of high technology materials. This book tells the story of its

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