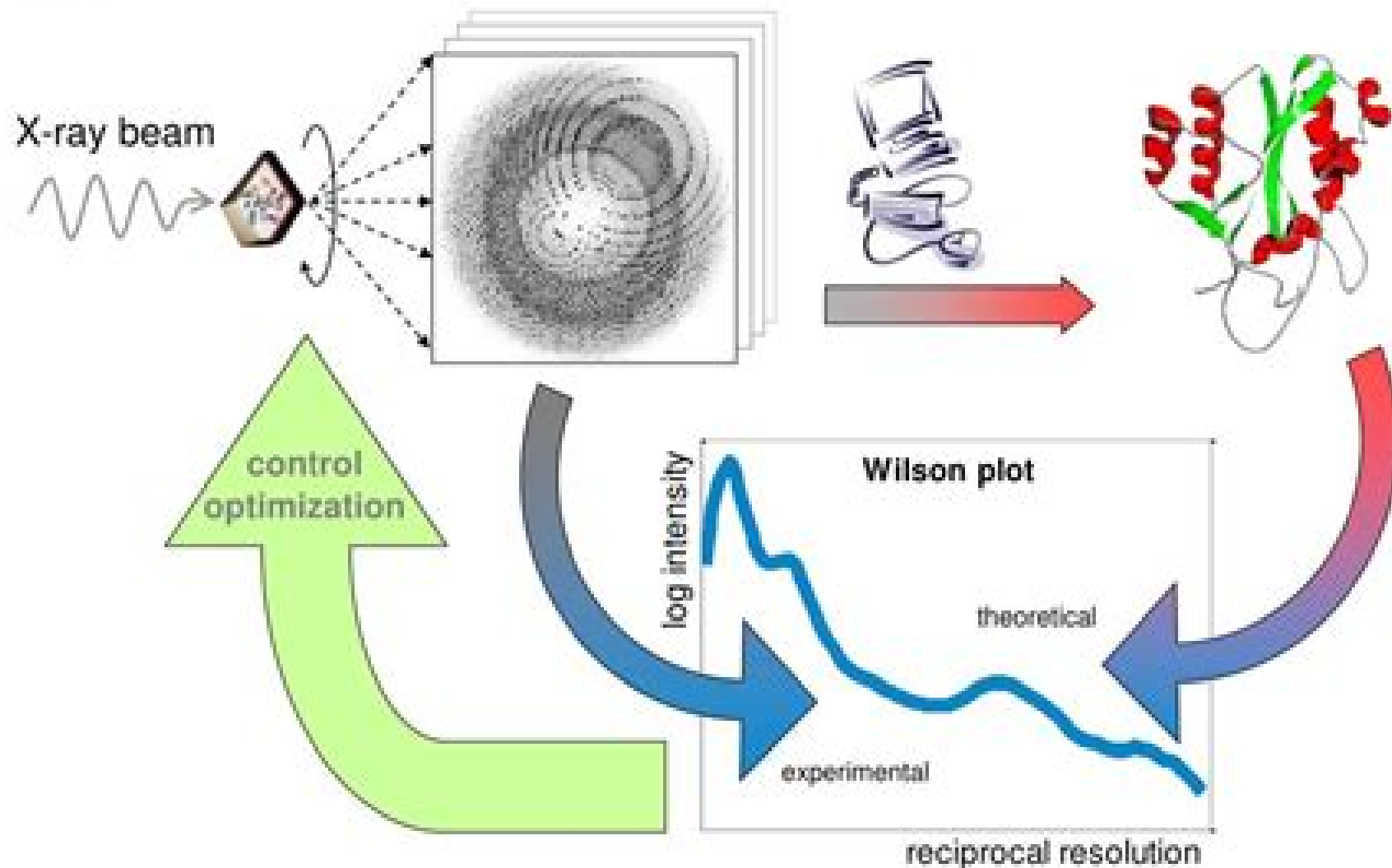
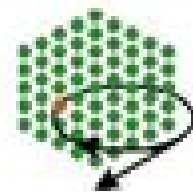


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LP Steffe



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Serdyuk, Nathan R. Zaccai, Joseph Zaccai, 2007-03-29 Our knowledge of biological macromolecules and their interactions is based on the application of physical methods ranging from classical thermodynamics to recently developed techniques for the detection and manipulation of single molecules These methods which include mass spectrometry hydrodynamics microscopy diffraction and crystallography electron microscopy molecular dynamics simulations and nuclear magnetic resonance are complementary each has its specific advantages and limitations Organised by method this textbook provides descriptions and examples of applications for the key physical methods in modern biology It is an invaluable resource for undergraduate and graduate students of molecular biophysics in science and medical schools as well as research scientists looking for an introduction to techniques beyond their specialty As appropriate for this interdisciplinary field the book includes short asides

to explain physics aspects to biologists and biology aspects to physicists *Phasing in Crystallography* Carmelo Giacobazzo, 2014 The book describes phasing techniques in modern crystallography The main text is dedicated to their simple description and further mathematical details are contained in the appendices Practical aspects are described for each specific method making it a useful tool for the daily work of practising crystallographers *Structure and Dynamics* Martin T. Dove, 2003-03-06 This volume describes how the arrangement of atoms in a solid and the way they move are related to the forces between atoms It also discusses how this affects the behaviour and properties of materials *Electron Crystallography of Biological Macromolecules* Robert M. Glaeser, 2007 This book provides a complete introduction to all major topics needed in order to use electron microscopy as a research tool in structural biology Written by a group of 5 well known pioneers of the field of electron cryo microscopy of biological macromolecules this book offers a depth of knowledge and expertise that could only be replicated from the primary literature with great difficulty **Theory and Practice of Direct Methods in Crystallography** M. F. C. Ladd, R. A. Palmer, 1980-01-31 Direct methods of crystal structure determination are usually associated with techniques in which phases for a set of structure factors are determined from the corresponding experimental amplitudes by probabilistic calculations It is thus implied that such ab initio phase calculations do not require a knowledge of atomic positions and this basis distinguishes direct methods from other techniques for structure determination An acceptably wider interpretation of the term direct methods leads to other important applications involving inter alia the use of heavy atoms resolution limited phase data for large molecules rotation functions and Fourier series These topics are discussed in the later chapters of this book Although some earlier theoretical investigations were made by Harker and Kaspar direct methods may be considered to have begun around the year 1950 Important landmarks in the development of the subject include the book by Hauptmann and Karle *The Centrosymmetric Crystal* 1953 the definitive paper by Karle and Karle in *Acta Crystallographica* 1966 and the recent 1978 sophisticated program package MULTAN 78 produced mainly by Germain Main and Woolfson Woolfson's book *Direct Methods in Crystallography* was published in 1961 but because of the rapid progress in direct methods much of it soon became outmoded It is interesting to note that direct methods nearly came into being many years earlier Certainly the E2 relationship was used implicitly by Lonsdale in 1928 in determining the crystal structure of hexamethylbenzene *International Tables for Crystallography, Volume F* Eddy Arnold, Daniel M. Himmel, Michael G. Rossmann, 2012-03-05 *International Tables for Crystallography Volume F* is an expert guide to macromolecular crystallography for the structural biologist It was commissioned by the International Union of Crystallography in recognition of the extraordinary contributions that knowledge of macromolecular structure has made and will make to the analysis of biological systems from enzyme catalysis to the workings of a whole cell The volume covers all stages of a crystallographic analysis from the preparation of recombinant proteins through crystallization diffraction data collection phase determination structure validation and structure analysis Although the volume is written for experienced

scientists it is recognized that the reader is more likely to be a biologist interested in structure than a classical crystallographer interested in biology Thus there are chapters on the fundamentals history and current perspectives of macromolecular crystallography as well as on useful programs and databases such as the Protein Data Bank Each chapter is written by one or more internationally recognized experts This second edition features 19 new articles and many articles from the first edition have been revised The new articles cover topics such as standard definitions for quality indicators expression of membrane proteins protein engineering high throughput crystallography radiation damage merohedral twinning low resolution ab initio phasing robotic crystal loading whole cell X ray diffraction imaging and halogen interactions in biological crystal structures There are also new articles on relevant software including software for electron microscopy These enhancements will ensure that Volume F continues to be a key reference for macromolecular crystallographers and structural biologists More information on the series can be found at <http://it.iucr.org>

Methods in Molecular Biophysics Nathan R. Zaccai, Igor N. Serdyuk, Joseph Zaccai, 2017-05-18 Current techniques for studying biological macromolecules and their interactions are based on the application of physical methods ranging from classical thermodynamics to more recently developed techniques for the detection and manipulation of single molecules Reflecting the advances made in biophysics research over the past decade and now including a new section on medical imaging this new edition describes the physical methods used in modern biology All key techniques are covered including mass spectrometry hydrodynamics microscopy and imaging diffraction and spectroscopy electron microscopy molecular dynamics simulations and nuclear magnetic resonance Each method is explained in detail using examples of real world applications Short asides are provided throughout to ensure that explanations are accessible to life scientists physicists and those with medical backgrounds The book remains an unparalleled and comprehensive resource for graduate students of biophysics and medical physics in science and medical schools as well as for research scientists looking for an introduction to techniques from across this interdisciplinary field

Computing Methods in Crystallography University of Oxford, 1965 **Direct Methods in Crystallography** Carmelo Giacovazzo, 1980 *Computing in Crystallography*, 1978 Structure & Statistics in Crystallography Arthur James Cochran Wilson, 1985 **Crystallographic Computing** F. R. Ahmed, S. R. Hall, C. P. Huber, 1970 **International Union of Crystallography Sixth International Congress and Symposia, Rome, Italy, 9-18 September 1963**, 1963

Computational Crystallography David Sayre, 1982 Papers presented at the International Summer School on Crystallography Computing Carleton University Ottawa August 7-15 1981 **Macromolecular Crystallography** Charles W. Carter, Robert M. Sweet, 1997 Crystallographic Computing Techniques F. R. Ahmed, K. Huml, Blahoslav Sedláček, 1976

Structure Determination by X-ray Crystallography Marcus Frederick Charles Ladd, Rex Alfred Palmer, 1993 X ray crystallography provides us with the most accurate picture we can get of atomic and molecular structures in crystals It provides a hard bedrock of structural results in chemistry and in mineralogy In biology where the structures are not fully

crystalline it can still provide valuable results and indeed the impact here has been revolutionary It is still an immense field for young workers and no doubt will provide yet more striking developments of a major character It does however require a wide range of intellectual application and a considerable ability in many fields This book will provide much help It is a very straightforward and thorough guide to every aspect of the subject The authors are experienced both as research workers and as teachers of standing and this is shown in their clarity of exposition There are plenty of illustrations and worked examples to aid the student to obtain a real grasp of the subject The practical side is encouraged by the very clarity of the theory *Techniques of Macromolecular Crystallography* Cynthia Vianne Stauffacher, 1978 **International Tables for**

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