

Structural Biological  
Applications of X-Ray  
Absorption, Scattering,  
and Diffraction

*EDITED BY*

H. D. BARTUNIK and B. CHANCE

# Structural Biological Applications Of X Ray Absorption Scattering And Diffraction

**Haruo Sugi, G. Pollack**

## **Structural Biological Applications Of X Ray Absorption Scattering And Diffraction:**

**Structural Biological Applications of X-ray Absorption, Scattering, and Diffraction** H. D. Bartunik, Britton Chance, 1986    Synchrotron Radiation in Structural Biology R. Sweet, 2013-03-09 The development of synchrotron radiation SR as a research tool was driven largely by the needs of materials scientists and solid state physi cists However the availability of SR has extended significantly the capa bility of scientists who study biological structure with radiation This volume contains some of the results reported at a symposium held at Brookhaven National Laboratory in May 1988 to discuss the application of synchrotron radiation to structural biology We are grateful for financial support from the u s Department of Energy the National Institutes of Health Genentech Inc Blake Indus tries Inc Evans and Sutherland Co The Upjohn Company Eli Lilly and Company Enraf Nonius Service Corp and Associated Universities Inc We warmly thank Ms Nancy Siemon for her tireless efforts with correspondence and the manuscripts for this symposium volume Symposium Committee Robert M Sweet Chair Malcolm S Capel Benno P Schoenborn John C Sutherland Elizabeth C Theil Stephen W White Avril D Woodhead Helen Z Kondratuk Coordinator v CONTENTS An Introduction to the Symposium 1 R M Sweet SYMPOSIUM LECTURE Developments in X ray Technology and Their Contribution to Structural Biology 3 H E Huxley SOME OF THE SYNCHROTRON FACILITIES FOR BIOLOGICAL STRUCTURAL STUDIES MacChess A Macromolecular Diffraction Resource at the Cornell High Energy Synchrotron Source 15 W Schi1dkamp K Moffat B Batterman D Bilderback T Y Teng A LeGrand and D Szebenyi Facilities Available for Biophysics Research at the Stanford Synchrotron Radiation Laboratory 19 R P

*National Library of Medicine Current Catalog* National Library of Medicine (U.S.),    **Biomedical Research Technology Resources** Research Resources Information Center, 1984    **Biomedical Research Technology Resources**, 1984    *NIH Publication*, 1984    Synchrotron Radiation in the Biosciences Britton Chance, 1994 This book represents the edited proceedings of the 4th International Conference on Biophysics and Synchrotron Radiation held in Tsukuba Japan in 1992 It discusses advances in the application of synchrotron radiation to biophysics and medicine The papers have been selected by adistinguished international board after refereeing and edited for publication It discusses advances in the application of synchrotron radiation to biophysics and medicine of interest to researchers from many diverse fields Just a few of the topics covered are filamentous viruses angiography and solution X ray scattering    **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70    Biomedical Index to PHS-supported Research, 1993    Neutron, X-ray and Light Scattering Peter Lindner, Thomas Zemb, 1991 This book is devoted to a simple practical approach to neutron X ray and light scattering experiments involving model calculation of the scattering and mathematical transformation It is intended to attract colloid and polymer scientists using scattering methods in their laboratory or at common research facilities The primary objective is to explain the current methodology of elastic and quasi elastic scattering techniques avoiding both under and over exploitation of data rather than a general course on colloids and

polymers Basic information on data interpretation on the complementarity of the different types of radiation as well as information on recent applications and developments are presented **Handbook on Synchrotron Radiation** Setsuro Ebashi,M. Koch,E. Rubenstein,1991 Hardbound The first three volumes in this series were mainly devoted to applications of Synchrotron Radiation in various fields of physics and chemistry Volume 4 covers in a self contained manner the properties of sources elements of instrumentation and applications to biological and medical research The exception confirming the rule is EXAFS where it was felt that this topic at the border between inorganic chemistry and biochemistry was adequately covered in previous volumes and in several recently published textbooks Each chapter provides an introduction for newcomers as well as a reference for more advanced researchers In conclusion this is a unique book providing a comprehensive overview of the use of S R in biology and medicine Index of Conference Proceedings Received British Library. Document Supply Centre,1987 Determination of Structural Features of Crystalline and Amorphous Solids Bryant W. Rossiter,John F. Hamilton,1990 Journal of Science Hiroshima Daigaku,1989 **Acta Physica Polonica** ,1992

*Physical Methods of Chemistry: Determination of structural features of crystalline and amorphous solids* Bryant W. Rossiter,John F. Hamilton,1990 Neutron and Synchrotron Radiation for Condensed Matter Studies Jose Baruchel,Jean-Louis Hodeau,Mogens S. Lehmann,Jean-Rene Regnard,Claire Schlenker,1994-04-07 The present volume is the third and last in the series based on the HERCULES Course on Neutron and Synchrotron Radiation for Condensed Matter Studies It covers selected applications of neutron and synchrotron radiation to soft condensed matter introduction plus 7 chapters and biology introduction plus 10 chapters The fields are extremely wide so only some selected topics representative of recent interest and developments are reported The authors were selected for their scientific expertise and teaching skills An index covering the content of all three volumes is included Handbook on Synchrotron Radiation Ernst-Eckhard Koch,1983

**Molecular Mechanism of Muscle Contraction** Haruo Sugi,G. Pollack,1988-05 It is now widely recognized that fundamental progress in science is made not in a continuous manner but in a stepwise manner In the field of the molecular mechanism of contraction in striated muscle the stepwise progress was achieved by three great investigators in 1940 s and 1950 s In the early 1940 s Albert Szent Gyorgyi and his associates showed biochemically that muscle contraction is essentially an interaction between actin and myosin coupled with ATP hydrolysis Then in the 1950 s Hugh E Huxley together with Jean Hanson demonstrated that striated muscle is composed of a hexagonal lattice of two kinds of interdigitating myofilaments consisting of actin and myosin respectively and made a monumental discovery that muscle contraction results from the relative sliding between the actin and myosin filaments Andrew F Huxley who also participated in the discovery of the sliding filament mechanism of muscle contraction was attributed to the attachment detachment cycle between the cross bridges extending from the myosin filament and the complementary sites on the actin filament After the above stepwise progress however muscle research appears to have entered into a period of so called normal science where

detailed knowledge has been accumulating around the well established central dogmas but without fundamental progress More specifically most experiments on muscle contraction mechanisms have been designed carried out and interpreted on the basis of the Huxley s 1957 and the Huxley Simmons 1971 contraction models as well as the kinetic scheme of actomyosin ATPase but the molecular mechanism of contraction still remains to be a matter for debate and speculation For further fundamental progress in this field of research we feel it necessary to reconsider the validity of these dogmas and to interpret the results more freely In 1978 one of us H S organized a symposium in Tokyo based on the above idea and we published the proceedings under the title of Cross bridge Mechanism in Muscle Contraction ed H Sugi and G H Pollack University of Tokyo Press University Park Press 1979 The unusual interest of muscle physiologists in this symposium encouraged us to organize a second symposium on muscle contraction in Seattle in 1982 and proceedings was again published under the title of Contractile Mechanisms in Muscle ed G H Pollack and H Sugi Plenum Publishing Corporation 1984 We were again very much encouraged by the intense interest of the people at the symposium as well as by readers of the proceedings and became convinced that the symposia of this kind would greatly accelerate the progress in this field The present symposium was organized by one of us H S as the third Cross bride symposium Though most papers are concerned as in the previous two symposia with experiments on intact and demembranated muscle fibers and isolated myofibrils where the three Dimensional muofilament lattice structures have been preserved the results are frequently discussed in connection with the kinetics of actomyosin ATPase reflecting the recent development of experimental methods connecting physiology and biochemistry It has also become possible to obtain direct information about the orientation and configuration of the cross bridges as various stages during muscle contraction     **Trudy i materialy nauchnykh kongressov i soveshchaniï, opublikovanneye za rubezhom v ... gg ,1987**

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