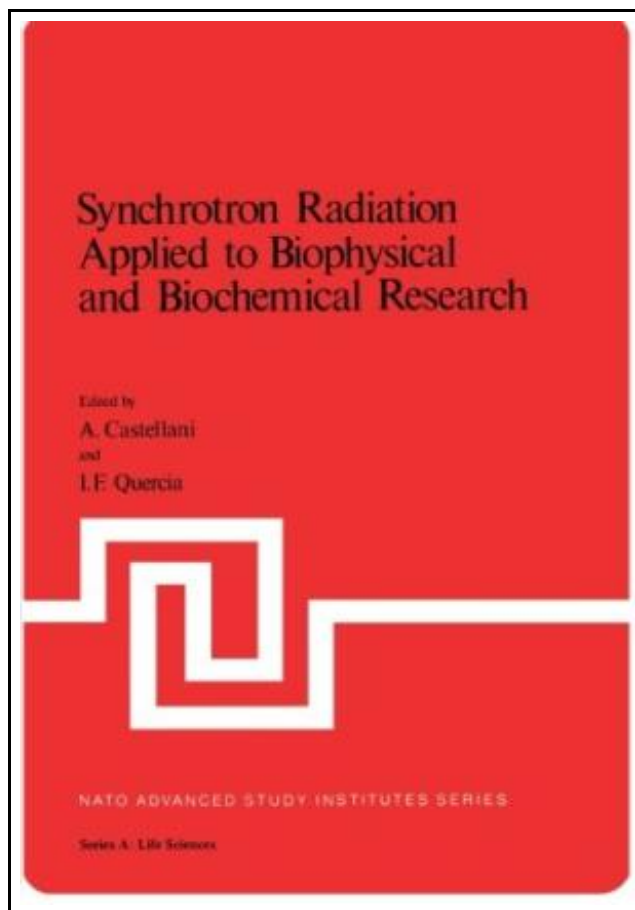


Synchrotron Radiation Applied to Biophysical and Biochemical Research



Filesize: 5.65 MB

Reviews

Extensive manual! Its such a great read. It really is loaded with knowledge and wisdom You wont really feel monotony at at any time of your time (that's what catalogs are for regarding if you ask me).

(Myrl Hintz)

SYNCHROTRON RADIATION APPLIED TO BIOPHYSICAL AND BIOCHEMICAL RESEARCH



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Book Condition: New. Publisher/Verlag: Springer, Berlin | The study of the interaction between light and matter has played a fundamental role in the development of natural sciences. Synchrotron radiation has characteristics of intensity, width and continuity of wave length range, time structure, tunability and polarization which are far superior to those of most other sources. It is possible with synchrotron radiation to perform experiments which could previously be only thought about and to routinely carry out measurements which were once made only with great difficulties. The study of the enormously complicated but immensely interesting biological structures seems to be particularly suited to this new approach. The above considerations lead us to consider the opportunity of critically discussing the achievements and perspectives of the use of synchrotron radiation in biology and presenting them to a selected audience within the framework of an advanced school. From the very beginning we were encouraged in our initiative by many discussions with colleagues in the Rome area, who were later to become members of the Scientific Committee of this Course. We were fully aware that many of the results obtained so far were of a preliminary nature; we felt, however, that they were sufficiently promising to justify this venture, which seemed particularly important in consideration of the increasing number of centers, where synchrotron radiation is becoming available. | Basic Properties of Synchrotron Radiation.- Some Considerations on UV Optics for Synchrotron Radiation.- VUV Monochromators at Synchrotron Radiation Sources.- Biophysical Spectroscopy in the Visible and Ultraviolet Using Synchrotron Radiation.- Spectroscopy and Photophysics: I. Radiative and Non-Radiative Decay Processes.- Spectroscopy and Photophysics: II. Bimolecular Processes.- Physical-Organic Photochemistry: I. Introduction and ? ? ? , ? ? ? Excitations.- Physical-Organic Photochemistry: II. n ? ? Excitations.- Physical-Organic Photochemistry: III. Photooxidations.- Physical-Organic Photochemistry: IV. Complex Formation.- Time-Resolved...



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