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(Mrs. Linnea McKenzie)

CHEMICAL CRYSTALLOGRAPHY WITH PULSED NEUTRONS AND SYNCHROTON X-RAYS



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Springer. Paperback. Book Condition: New. Paperback. 612 pages. Dimensions: 9.2in. x 6.1in. x 1.4in. X-ray and neutron crystallography have played an increasingly important role in the chemical and biochemical sciences over the past fifty years. The principal obstacles in this methodology, the phase problem and computing, have been overcome. The former by the methods developed in the 1960s and just recognised by the 1985 Chemistry Nobel Prize award to Karle and Hauptman, the latter by the dramatic advances that have taken place in computer technology in the past twenty years. Within the last decade, two new radiation sources have been added to the crystallographers tools. One is synchrotron X-rays and the other is spallation neutrons. Both have much more powerful fluxes than the previous sources and they are pulsed rather than continuous. New techniques are necessary to fully exploit the intense continuous radiation spectrum and its pulsed property. Both radiations are only available from particular National Laboratories on a guest-user basis for scientists outside these National Laboratories. Hitherto, the major emphasis on the use of these facilities has been in solid-state physics, and the material, engineering and biological sciences. We believe that there is equivalent potential to applications which are primarily chemical or biochemical. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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