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Computing in Crystallography

(Editors: R. Diamond, S. Ramaseshan and K. Venkatesan)

This book has recently been published by the Indian Academy of Sciences for the International Union of Crystallography. It contains 29 chapters incorporating the lectures presented at the International Winter School on Crystallographic Computing, which was held at the Indian Institute of Science, Bangalore, India, 4–14 January 1980 and was organized by the Union's Commission on Crystallographic Computing. The titles of the chapters are: *Diffractometer control with mini-computers; Absorption corrections for single-crystal X-ray and neutron data; The strategy of extinction corrections; Microdensitometry; Vector-space Patterson search and other stored-function sampling procedures; Automatic interpretation of the Patterson function; Symbolic addition; Multisolution methods; Other multisolution methods; Structure invariants and seminvariants; The method of least squares in crystallography; Error analysis; Incorporation of stereochemical information into crystallographic refinement; Thermal motion analysis; A systems approach to computing for charge density studies; Derivation of molecular properties by charge density integration; Heavy atom positions in macromolecules; The refinement of crystal structures by Fast-Fourier least squares; Phase evaluation and some aspects of the Fourier refinement of macromolecules; A matrix approach to the phase problem; Some problems in macromolecular map interpretation; XTAL: New concepts in program system design; Mini-computers in structure analysis; Microprocessors and microcomputers; Molecular conformation; Computer-generated illustrations; Interactive graphics; Programming methodology of artificial intelligence; A technique for overlaying common storage.*

In addition to the lectures the book includes the work sessions material of most of the lectures. This book (of about 525 pages) will be most useful to all who are engaged in crystal structure determination. Copies may be obtained from The Editor, Indian Academy of Sciences, Bangalore, 560 080, India. The price of the book is US \$17 or 125 Rupees, but individuals may purchase a copy for their personal use at the reduced price of US \$8 or 50 Rupees. These prices include postage by surface mail. Copies may be sent by airmail but at extra cost.

Book Reviews

Works intended for notice in this column should be sent direct to the Book Review Editor (J. H. Robertson, School of Chemistry, University of Leeds, Leeds LS2 9JT, England). As far as practicable books will be reviewed in a country different from that of publication.

Acta Cryst. (1980). A36, 1090–1091

Non-radiative decay of ions and molecules in solids. By R. ENGLMAN. Pp. xiii + 336, Figs. 62. Amsterdam: North-Holland, 1979. Price US \$58.50, Dfl 120.00.

This book deals with radiation absorption processes in solid-state impurity systems. In discussing these processes,

attention is focused on the conversion of the excitation energy into atomic motion of the lattice, a phenomenon commonly known as non-radiative decay. The book is divided into three parts and 22 chapters. The first chapter is devoted to a historical review of the concepts of non-radiative decay. In part I, which comprises chapters 2 to 10, an outline of the different approaches to non-radiative decay is first presented. On the basis of the reported results it is