

tive phenomenon observed in high sensitizer concentrations. The same should be said of Orbach's treatment of the phonon-induced spin-lattice relaxation and energy transfer as well as his earlier chapter on the quantum theory of lattice vibrations. Chapters on the spectroscopic properties of magnetic insulators, the role of the Jahn-Teller effect, and spectra of associated donor-acceptor pairs are also included.

All the chapters deal only with the theoretical aspects and experimental details are not presented or discussed. However, a sufficient number of illustrative experimental results and spectra are included at appropriate places.

In summary, there is a good balance in this book between the tutorial style and the review of the current state of the art in this field. Thus this book should be of value not only to the solid-state optics community but also to a wider audience in physics and engineering.

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Books Received

The following books have been received by the Editor. Brief and generally uncritical notices are given of works of marginal crystallographic interest; occasionally a book of fundamental interest is included under this heading because of difficulty in finding a suitable reviewer without great delay.

Crystal growth. Edited by B. R. PAMPLIN. Pp. xiv + 672. Pergamon Press, 1975, Price £10.00, US \$20.00.

This book is the flexicover edition (and about half the price) of the hardback published earlier in the year. The text is identical. A chapter-by-chapter review already published [see *J. Appl. Cryst.* (1976), 9, 61] included the observation that 'hardly any area of crystal growth is passed over in silence; focusing on the important issues, the book deals with their significant stages right up to the most recent developments'.

Progress in crystal growth and assessment: an international review journal. Edited by B. R. PAMPLIN (with an international advisory board). Four issues per annum; first issue, early 1977. Pergamon Press. Price US \$45.00 per annum.

This new review journal will carry articles on all aspects of crystal growth, rather like those in B. R. Pamplin's book *Crystal growth* (above), though shorter.