chapter as a "highly condensed review." Fortunately, very few of the 23 distinguished contributors take this approach. Most of them refer to other summaries and, while giving the essential background, leave themselves space to deal, often in a very illuminating and interesting manner, with the implications of the research they describe. To give one example: in his chapter on dispersal Gregory suggests that the spores of fungi like the giant puffball (Calvatia gigantea) may be more significant in promoting genetic exchange between existing mycelia than in starting new mycelia.

The first chapter gives an exhaustive and somewhat repetitive account of fungal protoplasts, and the next five deal with fungal structures ranging from aggregations of yeast cells to the complex fruit bodies of basidiomycetes. The next six chapters are concerned with the mechanisms of morphogenesis in various groups including the Myxomycetes and cellular slime molds. Two chapters on the physiology of reproduction are followed by six on reproduction and inheritance. In this last group the chapters by Emerson on Mendelian inheritance, Roper on the parasexual cycle, and Jinks on extranuclear inheritance are outstandingly good in providing clear, authoritative statements of what the authors consider significant. The last three chapters deal with spore dissemination: release, dispersal, and dormancy and germination. Author, subject, and organism indices conclude this important and useful reference book.

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Point Defects and Dislocations

Theory of Crystal Defects. Proceedings of a summer school held in Hrazany, Czechoslovakia, September 1964. Boris Gru-BER, Ed. Czechoslovak Academy of Sciences, Prague; Academic Press, New York, 1966. 415 pp., illus. \$15.

The Summer School of Hrazany, held at the initiative of Frantisek Kroupa, had the great merit of the bringing together of teachers and students from both the eastern and western parts of Europe to discuss problems of defects in crystals. The lectures included such well-known names as Indenbom, Orlov, Hirsch, Howie, Seeger, Kröner, Saada, Sestak, and Kroupa. The main lectures of this summer school now appear in published form.

The emphasis of the school was theoretical and on a "mechanical" or "atomistic" description of defects-primary point defects and dislocationswith little reference to their electronic state or to the physical properties sensitive to it. Within these limitations, the general aim of the school was, I think, reasonably well fulfilled. Some rather specialized papers such as Ludwig's on the dynamics of a crystal lattice with defects, Saada's on stacking faults, Kroupa's on dislocation loops, and Sestak's on glide and workhardening in BCC metals, bring out original material and are of intrinsic interest. It is probably mainly for those special papers that this book will be appreciated. I recommend it to serious students of defects in solids as a useful complement to other references.

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