mains do exist is probably surprising to many even today, though the stability of these domains was reported in 1960 by Kooy and Enz of Philips Research Laboratories in Eindhoven. It was not until it was realized that magnetic bubbles could operate competitively at speeds between those of magnetic tape and disk systems on the one hand and core or semiconductor memories on the other that a memory technology based on them emerged. Many interesting physics problems surfaced as this technology advanced, "hard bubbles" being one example.

Magnetic bubble domains can be readily observed in orthoferrite and garnet platelets and in epitaxial garnet films. In fact, observation of bubbles in controlled motion performing logic and storage functions is one of the fascinations of this technology. As a result of this ease of observation, the understanding of bubble circuits has progressed rapidly. The physics of bubble manipulation is adequately covered by O'Dell.

Tens of thousands of magnetic bubbles a fraction of a micrometer to several micrometers in diameter are entered as binary storage patterns in chips several millimeters on a side. These chips, singly or in combinations, are packaged to provide memory in many systems. *Magnetic Bubbles* will provide the casual reader with an overview of the subject and permit him better to compare magnetic bubble storage with other contenders. It is written in sufficient depth to satisfy the more serious student of bubble behavior.

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Solid State Spectra

Optical Properties of Ions in Solids. Papers from a NATO Advanced Study Institute, Erice, Italy, June 1974. BALDASSARE DI BARTOLO and DENNIS PACHECO, Eds. Plenum, New York, 1975. xvi, 494 pp., illus. \$39. NATO Advanced Study Institutes Series B, vol. 8.

The electronic energy states of ionic defects in solids have long been of immediate practical interest in the technology of artificial light sources: phosphors, fluorescent materials, and most recently lasers. The development of narrow, intense light sources has in turn accelerated the study of the defects themselves by, for example, enhancing their sensitivity as probes of the vibrational states of the host material. With their relatively simple structures, ionic defects have served as a rich microscopic

"laboratory" for the imaginative application of quantum mechanics to their vibronic states and to mechanisms such as cooperative absorption and transfer. The present volume gives a clear picture of the current status of this aspect of the field.

Well-done physics summer school proceedings serve to fill the gap between what is learned in general quantum mechanics courses and the detailed knowledge needed today for research in the subspecialties of physics. This gap has become virtually unbridgeable by specialty graduate courses such as those in solid state or nuclear physics, unless they are much too narrowly focused. The Erice volume is suitable as a basis either for a subspecialty course or for self-study by a graduate or advanced undergraduate student.

The optical properties of ions are discussed in many approximations, as appropriate, from the simplest configurationcoordinate picture to a full treatment of phonon sidebands. Chapters on magnetic insulators, the Jahn-Teller effect, and ionpair spectra are included. The important related subjects of stepwise up-conversion and cooperative absorption phenomena are covered, and this reviewer is especially enthusiastic about the clarity of the treatments of energy transfer by Watts and Orbach. All the lectures are concerned primarily with theory, but illustrative spectra are included and the balance is more than adequate. The value of the book is enhanced by the inclusion of just the right proportion of relevant more general topics such as semiclassical radiation theory, phonon theory, and group theory.

The authors of the lectures published in full are B. Di Bartolo, D. Curie, T. L. Estle, D. S. McClure, L. Mehrkam, R. Orbach, R. K. Watts, and F. Williams. Many of them have contributed more than one lecture. The authors and editors have produced a uniformly well-done volume that should have a place in many programs of study in the field.

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The Chief Abstractions of Biology. W. M. Elsasser. North-Holland, Amsterdam, and Else-

(Continued on page 812)

(Continued from page 771)

guinea pig lungs is used to model asthma attacks. In order to study the PG endoperoxides and their derivatives, investigators are studying and are synthesizing stable analogs of the PG endoperoxides.

William Lands of the University of Michigan and his associates are studying the kinetics and biochemistry of the enzyme that converts fatty acids to PG endoperoxides. This conversion occurs when the enzyme catalyzes the addition of two oxygen atoms to the fatty acid precursor of endoperoxides. Lands and his colleagues find that the enzyme has three active sites: a site where oxygen binds, a site where the fatty acid binds, and a site where a substance that activates the enzyme binds. According to Lands, the activator is probably an endoperoxide. This indicates that the enzyme is activated by its own reaction product, leading to an explosive rate of synthesis of PG endoperoxides once the reaction begins. Aspirin and indomethacin, Lands finds, inhibit this enzyme by attaching to the fatty acid binding site. Tylenol (p-hydroxyacetanilide), on the other hand, binds to the activator site to inactivate the enzyme.

Stable analogs of PG endoperoxides should facilitate studies of their modes of action and may also be of clinical importance. E. J. Corey of Harvard University together with Samuelsson and their associates recently synthesized such a stable endoperoxide analog. They report that this compound is 7.9 times more effective than naturally occurring PG endoperoxides in causing platelets to aggregate, 6 times more effective in causing platelets to release serotonin, and 7 times more effective in causing rabbit aortas to contract. (This means that it is 1450 times more effective than PGE, in causing contractions of rabbit aortas.)

Two other stable analogs of PG endoperoxides were synthesized by G. L. Bundy of the Upjohn Company. These analogs have, so far, been shown to be potent constrictors of the bronchii like the naturally occurring PG endoperoxides. Neither Bundy nor Corey and his colleagues have yet determined whether the PG endoperoxide analogs have the same range of biological activity as the naturally occurring endoperoxides or whether they have the same mode of action as the naturally occurring endoperoxides. For example, it is unknown whether they inhibit adenylate cyclase in fat cells. However, as these analogs become more widely available, the prospects for understanding how PG endoperoxides, thromboxanes, and prostaglandins act look promising.—GINA BARI KOLATA

BOOKS RECEIVED

(Continued from page 780)

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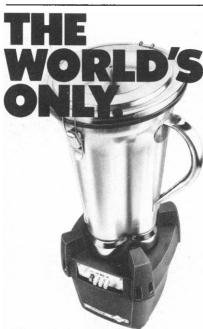
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