

concerning ^{13}C - ^{13}C coupling constants by G. E. Maciel is quite useful, since no extensive treatment of this subject has appeared to date. Both theoretical and experimental aspects of the topic are explored.

Another chapter is devoted to ^{29}Si Fourier transform NMR. G. C. Levy and J. D. Cargioli have performed much of the original ^{29}Si NMR research, and here they have produced a well-written synopsis that treats ^{29}Si chemical shifts and coupling constants and presents as well an informative exploration of ^{29}Si spin lattice relaxation parameters and their usefulness to silicon chemists.

Other chapters worthy of particular notice are the survey of recent advances in ^3H and ^2H NMR and the review of NMR studies of nonhydrogen nuclei in oriented molecules, both by Peter Diehl. Recent Fourier NMR studies of simple fluorocarbons are well presented by L. Cavalli. A chapter by E. G. Brame explores recent applications of ^{19}F NMR to the important topic of fluorocarbon polymers. Finally, Maciel summarizes applications of Fourier transform NMR studies of metal nuclei, a potentially most exciting kind of research. The chapter provides much needed introductory material and references for the worker just beginning such research. That, I think, was the overall purpose of the text, and, in general, the book succeeds as well as could be expected, given its origins in a lecture course.

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Low Temperature Physics

Superfluid Hydrodynamics. SETH J. PUTTERMAN. North-Holland, Amsterdam, and Elsevier, New York, 1974. xxii, 444 pp., illus. Cloth, \$48.10; paper, \$25. North-Holland Series in Low Temperature Physics, vol. 3.

As its title suggests, this book is mainly about helium below the lambda point, its remarkable mechanical and thermal properties, and their resolution through the two-fluid model. It is the work of an enthusiast who, moreover, has proved and reevaluated the theoretical bases of his subject, even those that are well known and generally accepted. Sometimes new light reaches murky corners. The author is well endowed with critical faculties and pow-

ers of exposition, and a fresh and stimulating text results from their application. The parts of the book interrelate well, and the material is presented in a consistent and generally attractive notation.

The book appears to contain original unpublished material. This includes: new thermodynamic stability conditions (analogous to $C_p > 0$) for the two-fluid model; a clarification of the boundary and shock jump conditions to which the governing equations must be subjected; a reconsideration of sound propagation in a counterflow; the prediction of superfluid transverse sound and an examination of its properties; a novel approach to normal fluid drag on a superfluid vortex; a study of the Brownian motion of such vortices; and many fresh ideas on thermal fluctuations in the two-fluid model. Also the discussion of the fluid mechanics of the condensed ideal Bose gas rests on the author's published work. Though reliable in its mathematics, the book strikes a physical attitude on most questions. Two-fluid equations are derived by the use of ideas of LTE (local thermodynamic equilibrium) that rational mechanists, such as Clifford Truesdell, are unlikely to bless.

An interesting feature of the text is the author's insistence on applying continuum equations to flows on the microscale, for example, to motions in films only a few atomic layers thick. In these days of increasing dominance of the field by many-body theorists, this approach serves to remind us how successful continuum models can be. Even if the many-body approach is in some sense the "right" one, the day on which we hold an approximation as acceptable as that of BCS (Bardeen-Cooper-Schrieffer) for superconductors does not appear to be imminent. Meanwhile, the many-body theorists are sometimes forced to make drastic approximations motivated more by mathematical expediency than by physical reality. It is then hard to be sure that the consequent results are any more "right" than those derived from the (more tractable) continuum approach. I am sure that the author will think his time well spent if his book leads, as it ought, to a better recognition of the power of the continuum model, as distinct from its limitations.

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University of Newcastle upon Tyne,
Newcastle upon Tyne, England*

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(Continued on page 383)

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MOLECULAR AND ENVIRONMENTAL ASPECTS OF MUTAGENESIS edited by Louise Prakash, Fred Sherman, Morton W. Miller, Christopher W. Lawrence and Harry W. Taber, *all of the Univ. of Rochester, Rochester, New York (40 Contributors)* The topics of this book represent the fields of interest of a group of people with special skills and knowledge in the field of toxicity as related to molecular and environmental aspects of mutagenesis. It represents a critical examination of what is known, of what the gaps in our knowledge are, and the strengths, limitations and failures of the present skills. '75, 295 pp., 40 il., 66 tables, \$24.50

NUTRITION AND OUR OVERPOPULATED PLANET by Sohan L. Manocha, *Yerkes Regional Primate Research Center, Emory Univ., Atlanta, Georgia.* Attention is drawn to the intimate relationship between nutrition, population and the task of feeding the masses. Directed toward thinking people of all socioeconomic strata in all countries, rich and poor, this book highlights the nutritional requirements of various age groups and the relationship between the available food supply and the number of mouths which lay claim to it. Educated laymen as well as students of sociology, anthropology, nutrition, medicine, biology, political science and history should find this book both interesting and informative. '75, 488 pp., 6 il., 11 tables, cloth-\$24.50, paper-\$16.75

BIOLOGIC AND CLINICAL EFFECTS OF LOW-FREQUENCY MAGNETIC AND ELECTRIC FIELDS edited by J. G. Llauro, A. Sances, Jr., and J. H. Battocletti, *all of the Medical College of Wisconsin, Milwaukee, Wisconsin. (50 Contributors)* Effects of static and slowly changing magnetic and electric fields on communication processes in human, animal and plant life are discussed. Divided into six major sections, topics range from nuclear resonance applications to microwave radiometric techniques followed by questions and answers. '74, 384 pp. (6 3/4 x 9 3/4), 130 il., 36 tables, \$34.50

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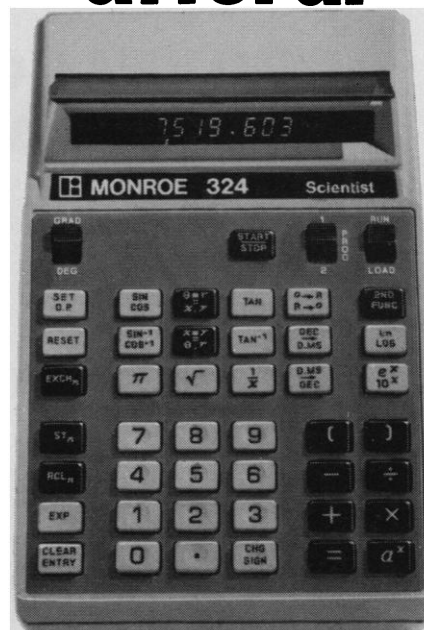
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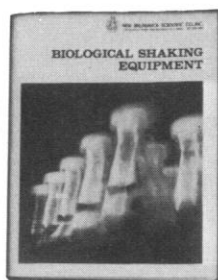
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