

## Ready for fall classes

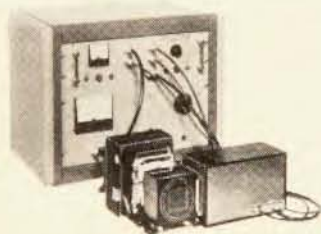
Professor Silvan S. Schweber, of Brandeis University, is preparing a manuscript, *An Introduction to Relativistic Field Theories*, which will be published in the early fall. Basically, this book is a revision of Volume I, *Fields*, of the two-volume set, *Mesons and Fields*.

The most recent formulations of relativistic field theories, particularly Wightman's and LSZ's are being incorporated. A discussion of the analytic properties of scattering amplitudes, a proof of dispersion relations based on the Jost-Lehmann Dyson representation, as well as a proof of the TCP theorem and of the connection between spin and statistics are included.

The foreword to this volume is being written by Professor Hans A. Bethe.

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*Proceedings of the Sixth Midwestern Conference on Fluid Mechanics* (U. of Texas, Sept. 1959). 465 pp. U. of Texas, Austin, Tex., 1959. \$12.50. Reviewed by R. E. Street, University of Washington.

EACH of the papers in the present proceedings is, like those in the previous five volumes, a contribution to theoretical or experimental research in fluid mechanics, except for the first one, which is an invited summary of recent progress in rarefied gas dynamics research. The thirty papers cover so many different aspects of fluid flow that the reader will probably not read more than the few in which he is specifically interested. In this sense the book is more like a bound volume of a journal and its purpose is the same, but with one difference, to provide in a considerably quicker form the papers read at a meeting held just a few months previous to publication instead of delaying their appearance for a year or more which would be the case if they were submitted to the standard journals in the field.

Although this procedure may not lead to as rigid editorial standards, screening of papers submitted to the conference has resulted in a selection of those of consistently high quality. This is partly because most of the authors are well known in the field of fluid dynamics research.

The subjects covered include at random: heat transfer by free and forced convection, wind profiles, explosions, combustion, compressible and incompressible flow, naval hydrodynamics, mixed phase flows, hypersonic flows, turbulence including boundary layers, lubrication, and finally magnetogasdynamics. The papers primarily have the engineer in mind yet those physicists who are also fluid dynamicists will find that the latest Midwestern Conference was similar to the preceding ones, and if he found the proceedings of those earlier conferences useful, he will find these useful as well.

*Kinetics of High-Temperature Processes: Conf. Report* (MIT, June 1958). Edited by W. D. Kingery. 326 pp. The Technology Press of MIT & John Wiley & Sons, Inc., New York, 1959. \$13.50. Reviewed by Stuart A. Rice, Institute for the Study of Metals, The University of Chicago.

THIS book consists of the proceedings of a conference on the Kinetics of High-Temperature Processes held in June 1958. The contributions (35 papers) provide a reasonable survey of the fields which are roughly grouped as follows: Imperfections and Diffusion in Non-Metals (10 papers), Diffusion in Liquids and Liquid-Liquid Reactions (4 papers), Nucleation and Grain Growth (5 papers), Sintering and Vitrification (5 papers), Phase Transformations (4 papers), Solid-Solid Reactions (3 papers), and Solid-Gas Reactions (4 papers). In this reviewer's view, the most important contribution made by a conference is the discussion of papers. If this were not so, there would be little excuse for not submitting papers to the standard