

Under the heading "Physiological Action," it would have been well had the authors adhered to the original idea somewhat more closely. For example, under  $\text{PH}_3$  nothing is said in reference to its poisonous character; again, sodium phosphate and potassium nitrate are not referred to as having any physiological action, while zinc sulphate, which is largely used as a mild astringent, is only mentioned as an emetic.

On the whole the work is clearly and concisely written, and contains a vast amount of information in a comparatively small space.

The book is poorly bound, many of the leaves separating entirely from the volume during the reading for review.

J. A. MILLER.

CHEMICAL LECTURE EXPERIMENTS. BY FRANCIS GANO BENEDICT, PH.D.  
New York: The Macmillan Co. 1901. xiii + 436 pp. Price, \$2.00.

Dr. Benedict's purpose in preparing this book is, as he says, "primarily to furnish teachers with a large number of reliable lecture experiments." His aim is, also, to suggest experiments that may be performed with an ordinary laboratory equipment. Although excellent manuals of this kind have been prepared in this country, in Germany and in England, no one will, I think, consider this book of Dr. Benedict superfluous. The experiments are so well chosen and so clearly described with so many valuable and practical hints, that even a novice should have no difficulty in making them successfully. The omission of many experiments requiring fragile or costly apparatus may cause some regret, but since descriptions of most of them are to be obtained from the text-books that will probably be found in nearly all school or college libraries, their exclusion does not detract seriously from the value of the book.

The greater portion of the text is devoted to the illustration of the properties of the non-metals, but some very interesting experiments on the metals and their compounds are described. Any teacher will, I think, find this work a useful addition to his library.

L. B. HALL.

RESEARCH PAPERS FROM THE KENT CHEMICAL LABORATORY OF YALE UNIVERSITY. EDITED BY F. A. GOOCH. In two volumes. 8vo. Vol. I, xvi + 411 pp. Vol. II, xii + 415 pp., with 20 figures in the text. New York: Chas. Scribner's Sons. Price, \$7.50.

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