

Ramsay's "Introduction to the Study of Physical Chemistry," which has already been published in Findlay's "Phase Rule," is reprinted in this volume as the opening volume of the series. In the various chapters are considered the fundamental laws of chemical combination, the Gas Law with its deviations and its application in the determination of molecular weights, the approximate determination of atomic weights in connection with Avogadro's Hypothesis, the Law of Dulong and Petit and that of Mitscherlich, the exact determination of atomic weights with special reference to Stas's work and recent density determinations, the Periodic Law, the dissociation of gases and abnormal vapor densities, the physico-chemical properties of liquids, the kinetic theory of gases and the reduced equation of state, the properties of solids, the properties of mixtures of gases and liquids, solubility and miscibility, the properties of dilute solutions, dissolution and vaporization, and the determination of molecular weight from purely chemical and from physico-chemical considerations.

A book upon these subjects from the hand of Professor Young is sure to be received with great interest on account of the author's own numerous contributions to knowledge in these lines. In the perusal of the volume, the reader is not disappointed in an expectation of an exceptionally lucid presentation. Throughout the book, the average student of physical chemistry, should have no difficulty in following the course of reasoning. Some subjects are treated more fully than others, the chapters dealing with the gas law, the properties of liquids and the kinetic theory of gases being particularly detailed and clear. Numerous tables of data and diagrams serve to illuminate the text, and abundant references to original articles are given. Occasional headings in the text facilitate the use of the volume as a reference book.

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Spectrum Analysis. By JOHN LANDAUER, Member of the Imperial German Academy of Naturalists. Authorized English Edition by J. Bishop Tingle, Professor of Chemistry in the McMaster University, Toronto. Second edition. Rewritten. New York: John Wiley & Sons; London: Chapman & Hall, Limited. 1907. 236 pp. Price, \$3.00.

In the new edition of this brief survey of spectroscopy, as the translator and editor states in the preface, "the measurements of spectra have been revised and brought up to date, the values being taken from Watts's 'Tables of Spectra,'" "the description of some of the older instruments has been eliminated in favor of a number of newer and superior forms." The index of authors has been combined with that of subjects. Few changes outside the above have been made. It is remarkable that Kayser's "Handbuch der Spectroscopie" is omitted from the bibliography of works on spectrum analysis.

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