

photohalides and the latent photographic image. The excellent and numerous illustrations assist in making the book exceptionally interesting and useful.

Miscellany.

Tabulæ Biologicae. Ed. W. Junk. Herausgegeben von C. Oppenheimer und L. Pincussen. Band 3: *Allgemeine Chemie, Konstanten chemischer Verbindungen, Chemie der Organe, Stoffwechsel, Grösse und Massen-Verhältnisse beim Menschen, Pharmakologie, Immunität.* Pp. vi + 829. (Berlin: W. Junk, 1926.) 63s.

THE contents of the third volume of "Tabulæ Biologicae," which we have recently received, are somewhat inadequately indicated by the short titles of the different sections, given above. A vast amount of information of interest to physiologists and biochemists may be found here, which, in general, appears to be adequate and up-to-date. Thus the formulæ and chemical and physical constants of all the better-known substances on which physiologists and pharmacologists may require information are given in this volume; data are provided on the different natural and synthetic drugs used in medicine, including a most useful table of the innocuous, toxic, and lethal doses of a great variety of compounds. This volume also contains data on the chemistry of different organs and on metabolism; in the latter section may be found such information as the oxygen and sugar consumption of different tissues, the heat value and composition of different foodstuffs, and the physical constants of man himself at all ages. Whilst, as is perhaps inevitable in a work of this kind, equal stress is laid on data which may be of unequal value owing to the differences in the number of experiments on which the figures are based, and whilst in places the data themselves appear inadequate, as, for example, the table on the vitamin content of different foods, yet our thanks are due to the editor and his collaborators for providing biologists with such readily accessible information on a wide variety of subjects, culled from so many different sources.

Die Kriegsschauplätze 1914-1918 geologisch dargestellt. Herausgegeben von Prof. Dr. J. Wilser. In 14 Heften. Heft 14: *Die Isthmuswüste und Palästina.* Von Dr. Paul Range. Mit einem Beitrage von Dr. Walter Hoppe: *Paläontologie und Paläogeographie der Jura- und Kreidenschichten der Isthmuswüste.* Pp. vi + 82. (Berlin: Gebrüder Borntraeger, 1926.) 11-40 gold marks.

DURING the War, Dr. P. Range was attached to the German-Turkish forces operating in Palestine to advise on the important matter of water-supply, and so had the opportunity of making a fairly detailed geological reconnaissance of the coastal plain of Palestine and the desert of northern Sinai (the Isthmus Desert) to the south. His chief observations have already been published in a number of papers in German periodicals, and include the discovery of important exposures of

Jurassic rocks in the Maghara Range, in northern Sinai—a discovery in which, however, he had been anticipated by a Frenchman, M. Couyat-Barthoux, a year or two previously.

Since the War, a number of important papers on the geology of Palestine have appeared from other quarters also, and it is gratifying to note that the recent important discoveries of marine Trias and Jura in nearer Transjordan have been made by British geologists.

In including an account of these recent advances the present volume fulfils a useful purpose. It rather supplements than replaces the section on Palestine in Prof. M. Blanckenhorn's volume, "Syrien, Arabien, und Mesopotamien," published in 1914 in the "Handbuch der regionalen Geologie." Very little is said about the structural features of the region and their history, most of the book dealing purely with the stratigraphy. For a treatise of its size, too much space is filled by long lists of fossils, copied from recent palæontological papers on the area. Dr. W. F. Hume will be surprised to see himself referred to on p. 2 as "der inzwischen verstorbene Direktor der Geologischen Survey of Egypt."

Exercices de calcul différentiel et intégral. Par l'Abbé Potron. Premier volume: *Résumé théorique et énonces d'exercices.* Pp. xviii + 332. (Paris: J. Hermann, 1926.) 35 francs.

MOST of the standard French treatises on mathematical analysis expound the subject in a way that gives but little help to a student by supplying him with exercises to test his progress. The volume before us is welcome as a useful supplement to such treatises. It contains more than a thousand unworked examples on the differential and integral calculus, including their geometrical applications, and on differential equations. Many of the problems have been proposed as examination questions in the French universities, and show the tendency of mathematical thought there in recent years. Short and unexhaustive notes on the theoretical groundwork involved are added, but the book is in no sense a treatise on infinitesimal calculus. Although the range covered aims at being a wide one, there are omitted many branches of the subject with which every well-trained mathematical student should be familiar.

W. E. H. B.

L'Art musical dans des rapports avec la physique. Par Prof. Jean Becquerel. (Extrait du tome 2 du *Cours de Physique.*) Pp. iv + 79. (Paris: J. Hermann, 1926.) 6 francs.

JEAN BECQUEREL has the unique distinction of being the fourth in a direct line of distinguished physicists extending over more than a century, and occupying, moreover, the same official position in the National Museum, Paris. This portion of the author's "Cours de Physique" is separately reprinted in a handy form useful to both musicians and physicists. In the question of melodic scales it supports Helmholtz as against the strict Pythagoreans.