

are none of us rich enough to care to throw aside a copy of a three-dollar book when four or five pages of it have become too dirty or too tattered to please our fastidiousness.

We do not know a more excellent book on its subject.
P. H. C.

OUR BOOK SHELF.

Die neueren Wandlungen der elektrischen Theorien einschliesslich der Elektronentheorie zwei Vorträge. By Dr. Gustave Holzmüller. Pp. viii+119. (Berlin: Julius Springer, 1906.)

IN this little book the author publishes some lectures delivered before a society of German engineers. The subjects for discussion do not seem to have been selected on any principle, and are inadequately represented by the title. The first chapter deals with Newtonian potential, the second with logarithmic potential; neither of these topics can be described as "neueren Wandlungen." We then proceed to the theories of electromagnetism based on "action at a distance," and are informed at the conclusion that these developments are also not new, having been superseded by the Faraday-Maxwell theory, to which the next chapter is devoted. The author devotes a considerable amount of space to analogical representations of the electric field, but the electromagnetic theory of light is considered beyond his scope.

No doubt the author knows best what is likely to interest his hearers; it is sufficient for our purpose to note that his treatment is undeniably accurate. But it should be pointed out that the information which he assumes that his readers possess is rather heterogeneous. The training of German engineers must be very different from that of their English colleagues if they require a lengthy proof that the conservation of mechanical energy is a consequence of the Newtonian law of attraction, and yet are ready to plunge, on the next page, into a discussion of the dimensions of electrical units.

The final chapter deals with the theory of electrons; it is really a description of some of the more important properties of cathode and Becquerel rays. The mathematical aspects are hardly mentioned, so that the term "electromagnetic mass" is used without a word of explanation as to its meaning. It is to be regretted that in this part of his work, where accuracy is especially desirable in the absence of complete text-books, there are to be found many statements which require considerable revision. In fact, when we find the author stating that the diameter of an electron has been determined by the application of the kinetic theory of gases, and accounting for the ionisation of a gas by the adherence of a slow-moving electron to the neutral molecule, we begin to doubt his competency to lecture or write at all on these subjects.
N. R. C.

The Unity of Will. Studies of an Irrationalist. By George Ainslie Hight. Pp. xv+244. (London: Chapman and Hall, Ltd., 1906.) Price 10s. 6d. net.

EVEN if the thinking of this book were of the best, it would seem a somewhat expensive morsel at half the price; and its thinking is not of the best. It professes to be an exposition of the leading doctrine of Schopenhauer, that in self-consciousness the primacy belongs to will. The author is at the same time careful to explain that he is a Vedântist while Schopenhauer is a Buddhist, but we doubt if the ordinary man will appreciate these fine distinctions.

We rather fear that the ordinary man will be repelled by a certain lack of unity, coherence, systematic statement, and logical proof. Thus, for example, we have a chapter full of irrelevancy on "hysteria and sophistry, the deadly evils of civilisation." Thus, too, we have a small appendix on the notion of life, which explains that everything in the world is in a certain sense alive, and seems to regard it as a valid argument that "the language of the skilled artisan is full of anthropomorphic expressions." A five-page statement of first principles at the end has certain of the merits that are so conspicuously lacking in the main body of the volume.

Diet and Dietetics. By A. Gautier. Edited and translated by Dr. A. J. Rice-Oxley. Pp. xii+552. (London: A. Constable and Co., Ltd., 1906.) Price 18s. net.

THIS is a translation of the second edition of Prof. Gautier's book published in Paris in 1904. It contains a vast mass of useful information, and is a laudable attempt to be an exhaustive treatise on diet. It deals with the individual articles of food, animal, vegetable, and mineral; with the combinations of these that constitute dietaries; it contains (*inter alia*) discussions, lightened by homely phrases and apt illustrations, on the dietaries of different races, on vegetarianism, on the part played by food as a source of heat and energy, on the alcohol question; and finally treats of the part played by diet in the cure and alleviation of disease. Prof. Gautier's large experience would lead one to anticipate a useful book; the arrangement of subjects appears, however, to be rather confusing, and the translator, although as a rule he has done his work ably, is not always happy in rendering the original into acceptable English.

German Grammar for Science Students. By Prof. W. A. Osborne and Ethel E. Osborne. Pp. viii+106. (London: Whittaker and Co.) Price 2s. 6d. net.

SCIENCE students who have not been taught German in schools will find this volume very useful in enabling them to read scientific papers published in that language. The essential parts of German grammar are described in sixteen lessons, and the exercises, instead of being of the "Have-you-seen-the-hat-of-my-uncle?" type, deal with scientific work and phrases—chiefly relating to chemistry—from the beginning to the end. Lists of words commonly met with in scientific German, and terms of frequent occurrence in papers on anatomical, botanical, chemical, physical, mathematical, and physiological subjects are given in an appendix. The book should be particularly valuable to private students.

LETTER TO THE EDITOR.

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Colour Phenomena in "*Boletus cœrulescens*."

IN reply to the query by Edgar Trevithick respecting the blue coloration in *Boletus*, Bourquelot and Bertrand (Bull. Soc. Myc., 1896, p. 18) have recently investigated the subject, and consider the action due to the presence of an oxidising ferment they have named tyrosinase. This ferment acts on certain chromogenous materials present in the fungus when exposed to the air.

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