

Das Relativitätsprinzip. Eine Einführung in die Theorie.

Von A. BRILL. Leipzig, B. G. Teubner, 1912. 3+28 pp.

THIS short brochure by Brill is merely a reprint of his article in volume 21 of the *Jahresbericht der deutschen Mathematiker-Vereinigung*, with a short preface, table of contents, and index added. The treatment is mathematical and didactic, without pretense of originality, and directed toward giving a brief account of the kinematics and dynamics of a particle from the point of view of relativity; electromagnetic phenomena and the theory of radiant energy are omitted.* It will doubtless be advantageous to many to be able to procure the reprint separately; but it is a rather doubtful policy for any journal to undertake to review such brochures, no matter how valuable they be.

E. B. WILSON.

Vorlesungen über technische Mechanik. Von A. FÖPPL.

Erster Band: *Einführung in die Mechanik.* 4te Auflage. Leipzig, B. G. Teubner, 1911. xv+424 pp.

EXCEPT for a more elaborate treatment of friction and a few minor changes, the fourth edition of the first volume of Föppl's lectures on mechanics does not differ from the second edition. Even figure 7, page 71, remains blocked on the wrong line. It will therefore be sufficient merely to cite our earlier reviews.†

E. B. WILSON.

Die Theorie der Wechselströme. Von E. ORLICH. Leipzig, B. G. Teubner, 1912. 94 pp.

THIS is the twelfth tract in Jahnke's series of *Mathematisch-Physikalische Schriften für Ingenieure und Studierende*. It contains that sort of treatment of alternating current phenomena for which we in America look to the works of Steinmetz. The work is elementary and straightforward. The algebra of rotating vectors and the geometrical representations

* The reader who desires to see these matters treated by four-dimensional, non-euclidean, vectorial methods may consult Wilson and Lewis, "Relativity," *Proceedings of the American Academy of Arts and Sciences*, volume 48, pp. 389-507.

† This BULLETIN, volume 9, pp. 25-35, volume 13, p. 520, volume 17, p. 548.