

His epoch-making discoveries in the theory of elliptic functions when only twenty-three years of age excited the admiration of all Europe, while his many and profound researches rapidly rendered him one of the most celebrated mathematicians of his day. But Germany had had great mathematicians before; Leibniz, Euler, the Bernoullis, not to mention later ones. What distinguishes Jacobi from his predecessors is the fact that he was a great teacher. In this respect he was the very opposite of his great contemporary Gauss, who disliked to teach, and who was anything but inspiring. Jacobi's lectures were models of clearness; the enthusiasm of the teacher kindled a like enthusiasm in his pupils. He took the unprecedented step of making his more gifted students acquainted with his own unfinished investigations and stimulated them to attack problems suggested by these researches. The results were most gratifying, for ere long we see his pupils, Hesse, Goepel, Rosenhain, Richelot, and others, publishing important memoirs.

It is not our intention, however, to write a sketch of Jacobi's life, but rather to call attention to the interest and the lessons which it has for us. We feel sure that no reader will regret perusing Professor Königsberger's biography, which is obviously a labor of love and the result of long and patient research. A feature of the work deserves especial commendation, and is most unusual. All of Jacobi's principal papers are carefully analyzed and the growth and filiation of his mathematical ideas stand forth in bold relief. It has no doubt cost his biographer months of patient study to do this; but the results here given will prove of utmost service to future generations of mathematicians who seek a rapid orientation of the leading facts in any part of Jacobi's multitudinous and varied publications.

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*Uebungsbuch zum Studium der höheren Analysis.* VON OSKAR SCHLÖMILCH. Erster Theil: *Aufgaben aus der Differentialrechnung.* Fifth edition, prepared by Dr. E. NÄETSCH. Leipzig, B. G. Teubner, 1904. 8vo. viii + 372 pp.

THIS work whose first edition appeared more than thirty years ago has enjoyed a well-merited popularity, both on account of the variety and careful choice of its problems and also the elegance and instructiveness often exhibited in their solutions. Numerous additions have been made in this, the fifth edition, giving fresh interest to the work. The problems