

1916, is to present in an elementary manner the fundamental properties of the ordinary elliptic functions. The first part deals with the Jacobian functions  $\operatorname{sn}$ ,  $\operatorname{cn}$ ,  $\operatorname{dn}$ , and the elliptic integrals, the second part with the Weierstrassian forms  $\wp u$ ,  $\zeta u$ ,  $\sigma u$ , and the third part with the general properties of elliptic functions and their applications to the Jacobian and Weierstrassian forms.

In the fourth and last part, the  $\theta$ -functions are considered.

As may be expected from the announcement in the preface, the book does not contain anything beyond well known elementary propositions. In view of possible applications, of which the book does not contain any, particular attention is given to the construction of formulas for numerical computations.

The reviewer must confess that he would have expected a course of lectures on elliptic functions at the University Paris planned from a higher point of view, as is customary at that famous center of mathematical activity. For this reason the Leçons, in spite of their excellence of execution and typography, are disappointing.

ARNOLD EMCH.

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#### NOTES.

THE April number (volume 41, number 2) of the *American Journal of Mathematics* contains the following papers: "Asymptotic satellites near the straight-line equilibrium points in the problem of three bodies," by DANIEL BUCHANAN; "Concerning the invariant theory of involutions of conics," by WAYNE SENSENIG; "Note on seminvariants of systems of partial differential equations," by A. L. NELSON; "On a method for determining the non-stationary state of heat in an ellipsoid," by BIBHUTIBHUSAN DATTA; "Nilpotent algebras generated by two units,  $i$  and  $j$ , such that  $i^2$  is not an independent unit," by G. W. SMITH.

THE Circolo matematico di Palermo announces that it has resumed the publication of its *Rendiconti*. Contributors are invited to submit manuscripts to its committee of publication under the usual conditions.

BEGINNING with the volume for 1919, *Nyt Tidsskrift for Matematik* will be published by the Mathematical society of Copenhagen. The name of the periodical has been changed to *Matematisk Tidsskrift*.

At the meeting of the London mathematical society held March 13, the following papers were read: By J. HAMMOND, "The solution of the quintic"; by L. J. MORDELL, "A simple algebraic summation of Gauss's sums"; by P. A. MACMAHON, "Divisors of numbers and their continuations in the theory of partitions"; by S. RAMANIJAN, "Convergence properties of partitions," and "Algebraic relations between certain infinite products."

At the meeting of the Edinburgh mathematical society held March 14, the following papers were read: By C. G. KNOTT, "Systems of rays in quaternion symbolism"; by E. T. WHITTAKER, "Some disputed questions of probability."

THE British association for the advancement of science will resume the holding of summer meetings. In 1919 the meeting will be held at Bournemouth under the presidency of Sir CHARLES PARSONS.

THE Adams prize for 1918 has been awarded to Professor J. L. NICHOLSON, of King's College, London, for his researches in mathematical astronomy.

DR. G. WALLENBERG, of the Charlottenberg technical school, has been promoted to an honorary professorship of mathematics.

PROFESSOR O. HÖLDER has been chosen rector of the University of Leipzig.

ASSOCIATE professor W. MATTHIES, of the University of Basle, has been promoted to a full professorship of mathematical physics.

PROFESSOR G. ROST has been chosen rector of the University of Würzburg.

PROFESSOR J. K. LAMOND, of Pennsylvania College, Gettysburg, has been given two years leave of absence to engage in Red Cross work. He is now associate director of the department of military relief, in charge of home service, Pennsylvania-Delaware division.

DR. C. E. WILDER has been appointed instructor in mathematics at Clark University.

PROFESSOR W. H. GARNETT, of Wesleyan College, Winchester, Ky., is on leave of absence for the year.

PROFESSOR A. L. RHOTON, of the department of mathematics at Georgetown, Ky., College, has been appointed associate professor of education at Pennsylvania State College.

DR. G. W. MULLINS, of Barnard College, Columbia University, has been promoted to an assistant professorship of mathematics.

MR. W. W. ELLIOTT has been appointed instructor in mathematics at the University of Kentucky.

PROFESSOR H. G. ZEUTHEN, of the University of Copenhagen, died February 15, 1919, at the age of eighty years.

PROFESSOR F. E. MILLER, head of the department of mathematics at Otterbein College, died March 26, 1919. He had been a member of the American Mathematical Society since 1910.

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## NEW PUBLICATIONS.

### I. HIGHER MATHEMATICS.

- BROUWER (L. E. J.). Begründung der Mengenlehre unabhängig vom logischen Satz vom ausgeschlossenen Dritten. 1ter Teil: Allgemeine Mengenlehre. Amsterdam, 1918. M. 2.00
- BURNSIDE (W. S.) and PANTON (A. W.). The theory of equations. London, Longmans. Volume 1, 8th edition, 1918. 14 + 286 pp.  
Volume 2, 6th edition, 1916. 9 + 288 pp. Each, 10s. 6d.
- FUETER (R.). Synthetische Zahlentheorie. Leipzig, Göschen, 1917. 8 + 271 pp.