

# BIBLIOGRAPHIE.

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## Amer. Math. Society.

New York.

ALBERT, A., Structure of Algebras (Amer. Math. Soc. Coll. Publ., Vol. XXIV.) XII + 210 p. 1939. 8:o. \$ 4:—.

Fundamental concepts. — Ideals and nilpotent algebras. — The structure theorems of Wedderburn. — Simple algebras. — Crossed products and exponents. — Cyclic semi-fields. — Cyclic algebras and »p«-algebras. — Representations and Riemann matrices. — Rational division algebras. — Involutions of algebras. — Special results.

SZEGÖ, G., Orthogonal Polynomials (Amer. Math. Soc. Coll. Publ., Vol. XXIII.) X + 401 p. 1939. 4:o. \$ 6:—.

Definition of orthogonal polynomials. — General properties of orthogonal polynomials. — Jacobi polynomials. — Laguerre and Hermite polynomials. — Zeros of orthogonal polynomials. — Inequalities. — Asymptotic properties of the classical polynomials. — Representation of positive functions. — Polynomials orthogonal on the unit circle. — Expansion problems associated with the classical polynomials. — Asymptotic properties of general orthogonal polynomials. — Expansion problems associated with general orthogonal polynomials. — Interpolation. — Mechanical quadrature. — Polynomials orthogonal on an arbitrary curve.

## Franz Deuticke.

Wien.

ORTHNER, R., Die drei Grundphänomene der Physik und ihre Deutung. VI + 34 p. 1939. 8:o. RM. 1:50.

Die Struktur der realen Aussenwelt. — Deutung der drei Grundphänomene.