

provide a convergent expansion for every continuous function. In an appendix he proves the following generalization by Lozinskii and Harshiladze: there exists no sequence $\{U_n\}$ of linear operators on C such that U_n takes every element of C into a polynomial of degree at most n , and leaves such polynomials invariant, while $U_n(f) \rightarrow f$ for every f in C .

The translation reads smoothly, with no relics of Russian mathematical style; it appears to be quite idiomatic, even to the extent of rendering "Buniakovskii's inequality" by "Cauchy's inequality" or "Schwarz's inequality" according to circumstances.

R. P. BOAS, JR.

BRIEF MENTION

Allgemeine Theorie der algebraischen Zahlen. By Ph. Furtwängler. Reviewed by H. Hasse and W. Jehne. Enzyklopädie der mathematischen Wissenschaften, vol. I₂, no. 8, part II. 2d ed. Leipzig, Teubner, 1954. 50 pp. 6 DM.

This subject being surrounded in the Enzyklopädie by articles on Allgemeine Modul-Ring- und Idealtheorie, Bewertungstheorie, Theorie der abelschen Zahlkörper, and a section on analytic number theory, the authors faced a considerable problem in choice of material. In the reviewer's opinion they solved it admirably, allowing enough overlapping to make the various approaches to the subject clear. The first 40 pages are devoted to the arithmetic in integral domains of algebraic number fields as worked out by Kummer, Dedekind, and Kronecker, with an indication of the approach by valuation theory. The description of Kummer's approach, which is seldom mentioned but turns out to be surprisingly modern, is of interest. Main topics: ideals, ideal classes, different and discriminant, units. Except for a brief hint under "Axiomatische Begründung der Idealtheorie," there is no indication that practically all of this applies equally well to function fields of transcendence degree 1. The last 10 pages are devoted to Artin's theory of the conductor and L -series, and analytic formulas for the class number.

G. WHAPLES

An introduction to stochastic processes with special reference to methods and applications. By M. S. Bartlett. Cambridge University Press, 1955. 312+14 pp. \$6.50.

This book deals primarily with elementary heuristic applications to genetics, population growth, insurance risk, statistics, queuing