

are defined or even delimited. It makes exceptionally good use of elementary lattice-theoretical ideas, switching theory, and number-theoretic notions.

Since there are no study problems, the compendium, by itself, would be unsuitable as a textbook. It should be particularly valuable to researchers interested in novel and practical communication networks or in queueing theory.

ALBERT A. MULLIN

Lawrence Radiation Laboratory
University of California
Livermore, California

58[X].—I. M. KHABAZA, *Numerical Analysis*, Pergamon Press Ltd., Oxford, England, 1965, xii + 239 pp., 20 cm. Price 25s. (Paperbound).

This book is an elementary approach to desk and computer calculation, yet it contains much advanced material (sometimes a bit too compressed for easy reading by the beginner). The basic approach, after a pair of chapters on digital computers and desk machines, is classical via many interpolation formulas derived by symbolic operator methods. The book also covers the topics of zeros of polynomials, solution of ordinary differential equations, and simultaneous linear algebraic equations including latent roots and vectors, orthogonal polynomials, and a bit on Gaussian quadrature. Thus it contains much of the usual material.

The material is well presented, has many practical remarks to aid the beginner, plus worked examples and exercises; thus it could serve as a text in a junior level course (except possibly for its occasional emphasis on desk machine methods which are passé with American students).

R. W. HAMMING

Bell Telephone Laboratories
Murray Hill, New Jersey

59[X, Z].—*4-ème Congrès de Calcul et de Traitement de l'Information*, Dunod, Éditeur, Paris, 1965, 413 pp., 22 cm.

This is a collection in French of more than fifty separate short articles presented at the 4th Congress of the Association Française de Calcul et de Traitement de l'Information (AFCALTI) held April 21–April 24, 1964. The subjects range from a treatment of singular integral equations to the training of management engineers.

The book is parsed into three main sections—reports, communications and conferences. The Congress touched the areas of combinatorial analysis, compilers, numerical analysis, systems, boolean algebra, digital and analogue computers, integral equations, programming languages for administration, and boundary value problems and variational methods. This record of the Congress is touted as being addressed to management specialist as well as mathematician, logician as well as technician and computing center director as well as student.

Perhaps because of the extent of subject matter and audience, the treatment of topics tends to be rather superficial, and as in most collections of conference papers,