

## REVIEWS AND DESCRIPTIONS OF TABLES AND BOOKS

The numbers in braces are assigned according to the indexing system printed in Volume 22, Number 101, January 1968, page 212.

57[1, 12].—W. W. YODEN, *Computer Literature Bibliography*, Vol. 2, 1964–1967, National Bureau of Standards, Special Publication 309, 1968, 381 pages, 29 cm. Price \$5.00. Order from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.

This is an extension of [1] and does for the years 1964–1967 what [1] did for the years 1946–1963. It is very similar in general format to [1]; the reader is referred to the longer review of this earlier volume for details. The literature listed is not all the literature on these subjects in those years, but that contained in 17 journals, 20 books, and 43 conference proceedings. In all, there are about 5200 references. This is a valuable reference book for libraries.

D.S.

1. W. W. YODEN, *Computer Literature Bibliography 1946–1963*, National Bureau of Standards, 1965. Reviewed in *Math. Comp.*, v. 19, 1965, p. 704, RMT 140.

58[2.05, 2.10, 2.15, 2.20, 3, 4, 5, 6, 7, 8, 13.15].—LOUIS G. KELLY, *Handbook of Numerical Methods and Applications*, Addison-Wesley Publishing Co., Inc., Reading, Mass., 1967, xiv + 354 pp., 24 cm. Price \$14.50.

A compilation of numerical methods and selected topics of interest to scientists and engineers, the book is addressed to a wide computing clientele and should be useful to some for general orientation and references to source material. List of chapter headings: 1. Introduction, 2. Finite and divided differences, 3. Basic interpolating and approximating polynomials, 4. Differentiation and integration, 5. Curve fitting and data smoothing, 6. Nonlinear algebraic equations, 7. Matrix algebra and operations, 8. Linear algebraic equations, 9. Eigenvalues and eigenvectors, 10. Scaling of matrices, 11. Introduction to complex variables, 12. Introduction to the Laplace transform, 13. Difference equations, 14. Ordinary differential equations, 15. Transfer function computations, 16. Partial differential equations, 17. Harmonic analysis, 18. Special functions and integrals, 19. Sampled data and digital filtering, 20. Numerical solution of integral equations, 21. Numerical solution of vibration problems, 22. Padé approximation to a function, 23. Gram-Schmidt orthogonalization procedure, 24. Computer methods of function minimization, 25. Elementary Statistics.

W. G.

59[2.05, 3, 4, 5, 6, 7, 9, 10].—L. COLLATZ, G. MEINARDUS & H. UNGER, Editors, *Funktionalanalysis, Approximationstheorie, Numerische Mathematik*, Birkhäuser Verlag, Basel, 1967, 232 pp., 25 cm. Price: sF 29.00.

Nestled on a picturesque hillside near Oberwolfach, in the Black Forest, is the Mathematical Research Institute, which serves the German mathematical com-