warning is heeded, the proposed series should serve as a good introduction to current research in "information systems science."

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6[3, 13.15].—RALPH A. WILLOUGHBY, Editor, *Proceedings of the Symposium on Sparse Matrices and Their Applications*, IBM Corporation, Thomas J. Watson Research Center, Yorktown Heights, New York 10598.

The symposium was held at the Thomas J. Watson Research Center on September 9 and 10, 1968, with 124 registered participants representing many fields of application. Included in this volume are summaries of the talks, usually of about eight or ten pages, together with an "edited version" of a panel discussion forming the closing session.

The eigenvalue problem came up only during the panel discussions and the contributions were meager. Otherwise, only inversion and the solution of linear systems were discussed. The treatment of large sparse systems is not yet to be found in the textbooks, and only occasionally in the periodicals concerned with numerical analysis. But special techniques have been devised for linear programming problems and for the analysis of power networks, in particular, and these are described in the literature dealing with these areas. This seems to be the first effort to bring together mathematicians and programmers, and specialists in their diverse areas, in order to coordinate and systematize their work. It is claimed that in some cases 100-fold reductions are achieved. This, and the range of applications, provide impressive evidence of the worthwhileness of the project.

The novice will not find in this an easy introduction to the subject in general or to any one technique in particular. But he can find indications of the various methods of approach and sometimes extensive lists of publications for further study. And the expert may well learn of other approaches he had not previously come across.

A. S. H.

7[3].—J. A. WILKINSON, *Rundungsfehler*, translated from English into German by G. Goos, Springer-Verlag, New York, 1969, x + 208 pp., 21 cm. Price $3.70 (paperbound).

This translation contains minor corrections of the earlier English version: *Rounding Errors in Algebraic Processes*. See review RMT **90**, vol. 18, no. 88, p. 675.

E. I.

8[3].—H. R. SCHWARZ, H. RUTISHAUSER & E. STIEFEL, *Numerik Symmetrischer Matrizen*, B. G. Teubner Verlag, Stuttgart, 1968, 243 pp., 22 cm. Price DM 34 —.

The names of the three authors should be sufficient to recommend this book to