It will be observed that linear algebraic equations and matrix theory have been omitted "... because I feel that this topic is best dealt with in a separate course". It should also be observed that Part Three, on Computation, covers less than 10% of the entire book.

The book is written in the author's usual clear, elegant style and achieves what he set out to do.

R. W. HAMMING

93[X].—GÜNTER MEINARDUS, Approximation von Funktionen und ihre numerische Behandlung, Springer-Verlag, Berlin, 1964, viii + 180 pp., 23 cm. Price DM 49.

This book is a well-organized introduction to approximation theory. The presentation begins with fundamentals and progresses to the frontiers of present knowledge in many areas. The book is rather short, but is organized so as to present a surprisingly large number of results. This is accomplished by the use of many "small type" sections where references to proofs, rather than proofs, are given. The level is about the same as the book of Achieser (i.e., roughly second-year graduate level). The computational problem for Tchebycheff approximation is considered in some detail and depth.

The book is divided into Part 1: Linear Approximation (124 pages) and Part 2: Nonlinear Approximation (47 pages). The chapter headings of Part 1 indicate its contents: 1. The General Linear Approximation Problem, 2. Closed Systems, 3. General Theory of Linear Tchebycheff Approximation, 4. Special Tchebycheff Approximation, 5. Degree of Convergence for Trigonometric and Polynomial Approximation, 6. Polynomial Approximation, 7. Numerical Methods for Linear Tchebycheff Approximation.

Part 2 consists of three chapters: 8. General Theory of Nonlinear Tchebycheff Approximation (primarily an exposition of recent results of Meinardus and Schwedt), 9. Rational Approximation (a combination of selected classical results—of de la Vallée Poussin and of Walsh—and recent results, including Werner's analysis of the Remes algorithm for rational approximation), 10. Exponential Approximation (an exposition of the recent results of Rice).

There is a well-selected bibliography of about 160 items. It is up to date, and includes both Russian and western literature.

In conclusion, this book is highly recommended as an introduction to modern approximation theory.

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94[X].—D. S. MITRINOVIĆ, *Elementary Inequalities*, P. Noordhoff Ltd., Groningen, The Netherlands, 1964, 159 pp., 22 cm. Price \$5.75.

This is a short book devoted to various applications of the elementary inequalities, which is to say, those associated with the names of Cauchy-Schwarz, Hölder, Minkowski, Jensen, et al., and to the derivation of numerous special inequalities for the elementary functions of analysis. There is also a brief chapter on geometric inequalities.

It reads well, is attractively printed, and is highly recommended. It will be