22[65–06, 41–06].—L. COLLATZ, G. MEINARDUS & G. NÜRNBERGER (Editors), *Numerical Methods of Approximation Theory*, International Series of Numerical Mathematics, Vol. 81, Birkhäuser, Basel and Boston, 1987, 261 pp., 24 cm. Price $47.00.

These are the proceedings of an international workshop held in Oberwolfach, September 28–October 4, 1986. They contain 21 papers on a variety of topics in pure and applied approximation theory.

W. G.

23[65–06].—P. KEAST & G. FAIRWEATHER (Editors), *Numerical Integration—Recent Developments, Software and Applications*, NATO Advanced Science Institute Series, Series C: Mathematical and Physical Sciences, Vol. 203, Reidel, Dordrecht, 1987, xiii+394 pp., $24\frac{1}{2}$ cm. Price $89.00.

These are the proceedings of the NATO Advanced Research Workshop on Numerical Integration held at Dalhousie University, Halifax, Canada, August 11–15, 1986. They contain 20 full-length papers and 10 abstracts organized in four parts: Theoretical aspects of one-dimensional quadrature; Theoretical aspects of multiple quadrature; Algorithms, software and applications; Software classification and testing. Several papers deal with the implementation of quadrature algorithms on vector and parallel machines. (The reviewer takes exception to the publication of referee's reports, apparently without the consent of the referees involved, in one of the contributions.)

W. G.

24[65–02, 68–02].—LEAH H. JAMIESON, DENNIS GANNON & ROBERT J. DOUGLASS (Editors), *The Characteristics of Parallel Algorithms*, MIT Press Series in Scientific Computation, The MIT Press, Cambridge, Mass., 1987, xi+440 pp., $23\frac{1}{2}$ cm. Price $27.50.

This book evolved from a workshop held in Santa Fe on November 30–December 2, 1983, that was to lay the groundwork for a Taxonomy of Parallel Algorithms. It contains 16 articles written by specialists in the respective areas and arranged here in three sections: General characteristics of parallel computation models; Application domain characterizations of parallelism; Software tools. While the emphasis is on architectures, programming and software, there are three contributions in the second section that discuss parallelism in Partial Differential Equations, Matrix Computation and Fast Fourier Transform.

W. G.