**7[4.05, 5.05].** — H. Fujii, F. Kikuchi, T. Nakagowa & T. Ushijima (Editors), *Numerical Analysis of Evolution Equations*, Lecture Notes in Numerical and Applied Analysis, Kinokuniya, Tokyo, 1979, iv + 163 pp., 26 cm. Price $13.00.

This volume is the first in a series to appear under the title Lecture Notes in Numerical and Applied Analysis and edited by H. Fijita and M. Yamaguti. It consists of the following seven papers selected from lectures presented at the Symposium on Numerical Analysis—State of the Art of Finite Element Methods for Evolution Equations, held July 11–12, 1978 in Kyoto, Japan, and organized by the Computer and Analysis Seminar, Japan:

T. Ushijima, On the finite element type approximation of semi-groups of linear operators

M. Tabata, $L^\infty$-analysis of finite element method

T. Suzuki, On some approximation theorems of evolution equations of parabolic type

T. Nakagawa, Transformation-into-finite-domain (TIFD) method for the finite difference solution to the diffusion equation in $R^2$

T. Iwamiya, S. Oharu and T. Takahashi, On the semigroup approach to some nonlinear dispersive equations

K. Goda, A finite difference scheme for the regularized long wave equation

J. Watanabe, Approximatiion of nonlinear problems of a certain type

Although in fact only three of the seven contributions concern finite elements, the volume gives an excellent overview, including many useful references, of recent work in Japan on the numerical solution of evolution equations.

V. T.

**8[2.05].** — L. Collatz, G. Meinardus & H. Werner (Editors), *Numerical Methods of Approximation Theory*, International Series of Numerical Mathematics 52, Birkhäuser-Verlag, Boston, Mass., 1980, 337 pp., 24 cm. Price $29.00.

This volume contains papers presented at a conference organized by the editors. This conference took place at the Mathematical Research Institute, Oberwolfach, Germany, from March 18–24, 1979.

**9[6.15].** — J. Albreacht & L. Collatz (Editors), *Numerical Treatment of Integral Equations*, International Series of Numerical Mathematics 53, Birkhäuser-Verlag, Boston, Mass., 1980, 275 pp., 24 cm. Price $33.00.

This volume contains papers presented at a workshop organized by the editors. The workshop took place at the Mathematical Research Institute, Oberwolfach, Germany, from November 18–24, 1979.