## Book reviews

aspects of solving differential equations numerically.

After a first chapter in which general discretization methods are considered, the other chapters deal with: forward step methods, Runge-Kutta methods, linear multistep methods, multistage multistep methods and a final chapter on other discretization methods for initial-value problems. Nordsieck's method falls within this last chapter as well as the extrapolation method of Gragg-Bulirsch-Stoer.

There is not yet a refined theory for stiff systems of equations available but the author hopes that this theory of strong exponential stability might turn out to be a possible basis for such a theory.

For those interested in the fundamental side of numerical analysis this book will be a valuable addition to their library.

A. I. van de Vooren

## Forthcoming papers

The following papers have been accepted for publication and will appear in the Journal of Engineering Mathematics:

- 1. Theory of propagation of cracks, by S. M. Sharfuddin.
- 2. Longitudinal surface curvature effect in magnetohydrodynamics, by N. G. Bodas and B. K. Gupta.
- 3. An isothermal theory of anisotropic rods, by M. C. Dökmeci.
- 4. Eigenvalues of a slightly stiff pendulum with a small bob, by W. D. Lakin.
- 5. On the radiation of short surface waves by a heaving circular cylinder, by G. Alker.
- 6. One-dimensional wave propagation and Fokker-Planck's equation, by E. Ghandour.
- 7. Saint-Venant's problem for inhomogeneous and anisotropic solids, by D. Iesan.
- 8. Incompressible viscous flow near the leading edge of a flat plate admitting slip, by A. I. van de Vooren and A. E. P. Veldman.
- 9. Some aspects of non-uniform convergence in an elliptic singular perturbation problem, by O. Diekmann.
- 10. Structure of contact region for non-symmetric initial disturbances, by L. Halabisky.
- 11. A variational approach to an unsymmetrical water wave scattering problem, by C. A. N. Morris.
- 12. Plastic-elastic torsion, optimal stopping and free boundaries, by J. W. Cohen.
- 13. Large-time inversion of certain Laplace transforms in dissipative wave propagation, by M. L. Rasmussen.
- 14. On non symmetric vibration of deep spherical sandwich sheels, by S. Mirza and A. V. Singh.
- 15. Analysis of parameter changes in chemical systems via geometric programming, by J. J. Dinkel and R. Lakshanan.
- 16. Application of the finite element method with sectional linearization to flow problems, by D. H. Keuning.