

## References

- [1] Auslander-Tolimieri: "Is Fast Fourier Transform pure or applied mathematics," Bull. (New Series) AMS, 1, 6 (1979), pp. 847-898.
- [2] Bramble-Schatz-Thomée: SIAM J. Numer. Anal., 14 (1977), pp. 218-241.
- [3] Brutman, L.: "On the Lebesgue function for polynomial interpolation," SIAM J. Numer. Anal. 15 (1978), pp. 694-704.
- [4] Canuto, C. and A. Quarteroni: "Propriétés d'approximation dans les espaces de Sobolev de systemes de polynômes orthogonaux," C.R. Acad. Sci. Paris 290 (1980) Series A, pp. 925-928, see also "Approximation results for orthogonal polynomials" in Math. Comp. 38 (1982), pp. 67-86.
- [5] Canuto, C., M. Y. Hussaini, A. Quarteroni, and T. A. Zang: Spectral Methods in Fluid Dynamics, Springer-Verlag, 1987.
- [6] Carleson: Acta Mathematica 116 (1966), pp. 135-157.
- [7] Davis, P. J. and P. Rabinowitz: Methods of Numerical Integration, Academic Press, New York, 1975.
- [8] Gottlieb, D.: "The stability of pseudospectral Chebyshev methods," Math. Comp. 36 (1981), pp. 107-118.

- 
- [9] Gottlieb, D. and S. A. Orszag: Numerical Analysis of Spectral Methods, SIAM, Philadelphia, 1977.
- [10] Kato, T.: Perturbation Theory of Linear Operators, Springer-Verlag, Berlin, 1980.
- [11] Lions, J. L. and E. Magenes: Nonhomogeneous Boundary Value Problems, Springer-Verlag, Berlin, 1972.
- [12] Majda, A., J. McDonough, and S. Osher: "The Fourier method for nonsmooth initial data," *Math. Comp.* **32** (1978), pp. 1041-1081.
- [13] Pasciak, J.: "Spectral and pseudospectral methods for advection equations," *Math. Comp.* **35**, 152 (1980), pp. 1081-1092.
- [14] Richtmyer, R. and K. Morton: Difference Methods for Initial Value Problems, J. Wiley & Sons, New York, 1963.
- [15] Rivlin, T. J.: An Introduction to the Approximation of Functions, Dover, New York, 1969.
- [16] Schwartz, L.: Théorie des Distributions, Hermann, Paris, 1967.
- [17] Taylor, M.: Pseudo Differential Operators, Springer, Lecture Notes in Mathematics No. 416.
- [18] Trèves, F.: Topological Vector Spaces, Distributions, and Kernels, Academic Press, New York, 1967.