

REFERENCES

- [A] Ahués, M., and Telias, M., Refinement methods of Newton type for approximate eigenelements of integral operators, *SIAM J. Numer. Anal.* 23(1986), 144-159.
- [AN] Anselone, P.M., *Collectively Compact Operator Approximation Theory*, Prentice-Hall, Englewood Cliffs, New Jersey (1971).
- [B] Baker, C.T.H., *The Numerical Treatment of Integral Equations*, Oxford Univ. Press, London and New York (1977).
- [BA] Bäumgartel, H., *Analytic Perturbation Theory for Matrices and Operators*, Birkhäuser Verlag, Basel, Boston and Stuttgart (1985).
- [C] Chatelin, F., *Spectral Approximation of Linear Operators*, Academic Press, New York (1983).
- [CL] Chatelin, F., and Lemordant, J., Error bounds in the approximation of eigenvalues of differential and integral operators, *J. Math. Anal. Appl.* 62(1978), 257-271.
- [CN] Cheney, W., *Introduction to Approximation Theory*, McGraw-Hill, New York (1966).
- [CR] Cryer, C.W., *Numerical Functional Analysis*, Oxford University Press, London and New York (1982).
- [D] Davis, P.J., and Rabinowitz, P., *Methods of Numerical Integration*, Academic Press, New York (1974).
- [DE] Deshpande, L.N., Approximate solution of eigenvalue problems, Ph.D. Thesis, Indian Institute of Technology Bombay (1987).
- [DL] Deshpande, L.N., and Limaye, B.V., Some iterative refinement methods to approximate eigenelements of bounded linear operators, to appear.
- [DN] Deshpande, L.N., Limaye, B.V., and Nair, M.T., A discretization procedure for the numerical computation of Rayleigh-Schrödinger iterates, Technical Report, Maths Dept., I.I.T. Bombay (1982).
- [F] Fichtenholz, G., and Kantorovitch, L., Sur les opérations linéaires dans l'espace des fonctions bornées, *Studia Math.* 5(1934), 69-98.
- [FM] Forsythe, G., and Moler, C.B., *Computer Solution of Linear Algebraic Systems*, Prentice-Hall, Englewood Cliffs, New Jersey (1967).
- [G] Gantmacher, F.R., *The Theory of Matrices*, Vol. 2, Chelsea, New York (1959).

- [GV] Golub, G.H., and Van Loan, C.F., *Matrix Computations*, Johns Hopkins Univ. Press, Baltimore, Maryland (1983).
- [J] Jiang, E., Kahan, W., and Parlett, B., Residual bounds of approximate eigensystems of nonnormal matrices, *SIAM J. Numer. Anal.* 19(1982), 470-484.
- [K] Kato, T., *Perturbation Theory for Linear Operators*, 2nd ed., Springer Verlag, Berlin, Heidelberg, New York and Tokyo (1976).
- [KR] Krein, M.G., and Rutman M.A., Linear operators leaving invariant a cone in a Banach space, *Uspehi Matem. Nauk* (1948), 3-95 (AMS Translation Series 1, Vol. 26).
- [KU] Kulkarni, R.P., Convergence and computation of approximate eigenelements, Ph.D. Thesis, Indian Institute of Technology Bombay (1982).
- [KY] Kulkarni, R.P., and Limaye, B.V., Convergence of eigenvalues under resolvent operator approximation, Research Report 19, CMA, Austral. Nat. Univ. (1987).
- [L] Limaye, B.V., *Functional Analysis*, Wiley Eastern, New Delhi (1981).
- [LN] Limaye, B.V., and Nair, M.T., Rayleigh-Schrödinger procedure for iterative refinement of computed eigenelements under strong approximation, in 'Methods of Functional Analysis in Approximation Theory', Proc. Conf., I.I.T. Bombay, 1985, Birkhäuser Verlag, Basel (1986), 371-388.
- [LR] Limaye, B.V., and Nair, M.T., Eigenelements of perturbed operators, to appear.
- [LS] Lyche, T., and Schumacher, L.L., On the consequences of cubic interpolating splines, in 'Spline Functions and Approximation Theory', Proc. Sympos., Univ. Alberta, Edmonton, Alberta 1972, Birkhäuser Verlag, Basel (1973), 169-189.
- [N] Nair, M.T., Approximation and Localization of Eigenelements, Ph.D. Thesis, Indian Institute of Technology Bombay (1984).
- [P] Parlett, B.N., The Rayleigh quotient iteration and some generalizations for nonnormal matrices, *Math. Compu.* 28(1974), 679-693.
- [PA] Parlett, B.N., *The Symmetric Eigenvalue Problem*, Prentice-Hall, Englewood Cliffs, New Jersey (1980).
- [R] Redont, P., Application de la théorie de la perturbation des opérateurs linéaires à l'obtention de bornes d'erreur sur les éléments propres et à leur calcul, Thèse Doct.-Ing., Univ. de Grenoble (1979).
- [RO] Rosenbloom, P., Perturbation of linear operators in Banach spaces, *Arch. Math.* 6(1955), 89-101.

- [S] Schiff, L.I., *Quantum Mechanics*, 3rd ed., McGraw-Hill, New York (1968).
- [SL] Sloan, I.H., Iterated Galerkin method for eigenvalue problems, *SIAM J. Numer. Anal.* 13(1976), 231-238.
- [SN] Sloan, I.H., Convergence of degenerate-kernel methods, *J. Austral. Math. Soc.(B)*, 19(1976), 422-431.
- [ST] Stewart, G.W., *Introduction to Matrix Computations*, Academic Press, New York (1973).
- [T] Taylor, A.E., and Lay, D.C., *Introduction to Functional Analysis*, 2nd ed., Wiley, New York (1980).
- [TW] Thorp, E., and Whitley, R., The strong maximum modulus theorem for analytic functions into a Banach space, *Proc. Amer. Math. Soc.* 80(1967), 640-646.
- [W] Watkins, D.S., Understanding the QR algorithm, *SIAM Review*, 24(1982), 427-440.
- [WH] Whitley, R., The stability of finite rank methods with applications to integral equations, *SIAM J. Numer. Anal.* 23(1986), 118-134.
- [WI] Wilkinson, J.H., *The Algebraic Eigenvalue Problem*, Clarendon Press, Oxford (1965).