## Chapter 9

## FURTHER READING

Matrix theory has many applications to science, mathematics, economics and engineering. Some of these applications can be found in the books [2, 3, 4, 5, 11, 13, 16, 20, 26, 28].

For the numerical side of matrix theory, [6] is recommended. Its bibliography is also useful as a source of further references.

## For applications to:

- 1. Graph theory, see [7, 13];
- 2. Coding theory, see [8, 15];
- 3. Game theory, see [13];
- 4. Statistics, see [9];
- 5. Economics, see [10];
- 6. Biological systems, see [12];
- 7. Markov non-negative matrices, see [11, 13, 14, 17];
- 8. The general equation of the second degree in three variables, see [18];
- 9. Affine and projective geometry, see [19, 21, 22];
- 10. Computer graphics, see [23, 24].

## Bibliography

- [1] B. Noble. Applied Linear Algebra, 1969. Prentice Hall, NJ.
- [2] B. Noble and J.W. Daniel. Applied Linear Algebra, third edition, 1988. Prentice Hall, NJ.
- [3] R.P. Yantis and R.J. Painter. *Elementary Matrix Algebra with Application, second edition, 1977.* Prindle, Weber and Schmidt, Inc. Boston, Massachusetts.
- [4] T.J. Fletcher. *Linear Algebra through its Applications*, 1972. Van Nostrand Reinhold Company, New York.
- [5] A.R. Magid. Applied Matrix Models, 1984. John Wiley and Sons, New York.
- [6] D.R. Hill and C.B. Moler. Experiments in Computational Matrix Algebra, 1988. Random House, New York.
- [7] N. Deo. Graph Theory with Applications to Engineering and Computer Science, 1974. Prentice-Hall, N. J.
- [8] V. Pless. Introduction to the Theory of Error-Correcting Codes, 1982. John Wiley and Sons, New York.
- [9] F.A. Graybill. *Matrices with Applications in Statistics*, 1983. Wadsworth, Belmont Ca.
- [10] A.C. Chiang. Fundamental Methods of Mathematical Economics, second edition, 1974. McGraw-Hill Book Company, New York.
- [11] N.J. Pullman. Matrix Theory and its Applications, 1976. Marcel Dekker Inc. New York.

- [12] J.M. Geramita and N.J. Pullman. An Introduction to the Application of Nonnegative Matrices to Biological Systems, 1984. Queen's Papers in Pure and Applied Mathematics 68. Queen's University, Kingston, Canada.
- [13] M. Pearl. Matrix Theory and Finite Mathematics, 1973. McGraw-Hill Book Company, New York.
- [14] J.G. Kemeny and J.L. Snell. Finite Markov Chains, 1967. Van Nostrand Reinhold, N.J.
- [15] E.R. Berlekamp. Algebraic Coding Theory, 1968. McGraw-Hill Book Company, New York.
- [16] G. Strang. Linear Algebra and its Applications, 1988. Harcourt Brace Jovanovich, San Diego.
- [17] H. Minc. Nonnegative Matrices, 1988. John Wiley and Sons, New York.
- [18] G.C. Preston and A.R. Lovaglia. Modern Analytic Geometry, 1971. Harper and Row, New York.
- [19] J.A. Murtha and E.R. Willard. Linear Algebra and Geometry, 1969. Holt, Rinehart and Winston, Inc. New York.
- [20] L.A. Pipes. Matrix Methods for Engineering, 1963. Prentice-Hall, Inc. N. J.
- [21] D. Gans. Transformations and Geometries, 1969. Appleton—Century— Crofts, New York.
- [22] J.N. Kapur. *Transformation Geometry*, 1976. Affiliated East–West Press, New Delhi.
- [23] G.C. Reid. Postscript Language Tutorial and Cookbook, 1988. Addison— Wesley Publishing Company, New York.
- [24] D. Hearn and M.P. Baker. Computer Graphics, 1989. Prentice-Hall, Inc. N. J.
- [25] C.G. Cullen. *Linear Algebra with Applications*, 1988. Scott, Foresman and Company, Glenview, Illinois.
- [26] R.E. Larson and B.H. Edwards. Elementary Linear Algebra, 1988. D.C. Heath and Company, Lexington, Massachusetts Toronto.

- [27] N. Magnenat–Thalman and D. Thalmann.  $State-of-the-art-in\ Computer\ Animation,\ 1989.$  Springer–Verlag Tokyo.
- [28] W.K. Nicholson. Elementary Linear Algebra, 1990. PWS–Kent, Boston.