

IRODALOM

AJÁNLOTT IRODALOM:

- R. BELLMAN, *Introduction to matrix analysis*. McGraw-Hill, New York, 1960.
- M. J. GROWE, *A history of vector analysis*. Notre Dame, London 1967.
- F. R. GANTMAKHER, *The theory of matrices. I, II*. Chelsea, New York, 1959.
- I. M. GELFAND, *Lectures on linear algebra*. Interscience Tracts in Pure and Applied Math, 1961, New York.
- W. H. GREUB, *Linear algebra*. Springer-Verlag, Berlin, 1967.
- , *Multilinear algebra*. Springer-Verlag, Berlin, 1967.
- P. R. HALMOS, *Finite-dimensional vector spaces*. Van Nostrand, Princeton, NJ, 1958. [*Véges dimenziós vektorterek*, Műszaki Könyvkiadó, Budapest, 1984.]
- R. A. HORN és CH. R. JOHNSON, *Matrix analysis*. Cambridge University Press, Cambridge, 1986.
- A. I. KOSTRIKIN és YU. I. MANIN, *Linear algebra and geometry*. Gordon & Breach, New York, 1989.
- M. MARCUS and H. MINC, *A Survey of matrix theory and matrix inequalities*. Allyn and Bacon, Boston, 1964.
- T. MUIR és W. H. METZLER, *A treatise on the history of determinants*. Dover, New York, 1960.
- M. M. POSTNIKOV, *Lectures on geometry. 2nd semester. Linear algebra*. “Nauka”, Moscow, 1986.
- , *Lectures on Geometry. 5th semester. Lie groups and Lie algebras*. “Mir”, Moscow, 1986.
- G. E. SHILOV, *Theory of linear spaces*. Prentice-Hall, Englewood Cliffs, NJ, 1961.

FELHASZNÁLT IRODALOM:

- J. F. ADAMS, *Vector fields on spheres*. Ann. Math. **75** (1962), 603–632.
- S. N. AFRIAT, *On the latent vectors and characteristic values of products of pairs of symmetric idempotents*. Quart. J. Math. **7** (1956), 76–78.
- A. C. AITKEN, *A note on trace-differentiation and the Ω -operator*. Proc. Edinburgh Math. Soc. **10** (1953), 1–4.
- A. A. ALBERT, *On the orthogonal equivalence of sets of real symmetric matrices*. J. Math. and Mech. **7** (1958) 219–235.
- B. AUPETIT, *An improvement of Kaplansky’s lemma on locally algebraic operators*. Studia Math. **88** (1988), 275–278.
- S. BARNETT, *Matrices in control theory*. Van Nostrand Reinhold, London, 1971.
- R. BELLMAN, *Notes on matrix theory, IV*. Amer. Math. Monthly **62** (1955), 172–173.
- R. BELLMAN és A. HOFFMAN, *On a theorem of Ostrowski and Taussky*. Arch. Math. **5** (1954), 123–127.

- M. BERGER, *Géométrie. Vol.4. Formes quadratiques, quadriques et coniques*. CEDIC/Nathan, Paris, 1977.
- O. I. BOGOJAVLENSZKIJ, *Solitons that flip over*. "Nauka", Moscow, 1991 [oroszul].
- N. N. CHAN és KIM-HUNG LI, *Diagonal elements and eigenvalues of a real symmetric matrix*. *J. Math. Anal. and Appl.* **91** (1983), 562–566.
- C. G. CULLEN, *A note on convergent matrices*. *Amer. Math. Monthly* **72** (1965), 1006–1007.
- D. Z. DJOKOVIĆ, *On the Hadamard product of matrices*. *Math. Z.* **86** (1964), 395.
- , *Product of two involutions*. *Arch. Math.* **18** (1967), 582–584.
- , *A determinantal inequality for projectors in a unitary space*. *Proc. Amer. Math. Soc.* **27** (1971), 19–23.
- M. A. DRAZIN, J. W. DUNGEY, and K. W. GRUENBERG, *Some theorems on commutative matrices*. *J. London Math. Soc.* **26** (1951), 221–228.
- M. A. DRAZIN és E. V. HAYNSWORTH, *Criteria for the reality of matrix eigenvalues*. *Math. Z.* **78** (1962), 449–452.
- W. N. EVERITT, *A note on positive definite matrices*. *Proc. Glasgow Math. Assoc.* **3** (1958), 173–175.
- H. K. FARAHAT és W. LEDERMAN, *Matrices with prescribed characteristic polynomials*. *Proc. Edinburgh Math. Soc.* **11** (1958), 143–146.
- H. FLANDERS, *On spaces of linear transformations with bound rank*. *J. London Math. Soc.* **37** (1962), 10–16.
- H. FLANDERS és H. K. WIMMER, *On matrix equations $AX - XB = C$ and $AX - YB = C$* . *SIAM J. Appl. Math.* **32** (1977), 707–710.
- P. FRANCK, *Sur la meilleure approximation d'une matrice donnée par une matrice singulière*. *C.R. Acad. Sci. Paris* **253** (1961), 1297–1298.
- W. M. FRANK, *A bound on determinants*. *Proc. Amer. Math. Soc.* **16** (1965), 360–363.
- G. FREGUS, *A note on matrices with zero trace*. *Amer. Math. Monthly* **73** (1966), 630–631.
- SH. FRIEDLAND, *Matrices with prescribed off-diagonal elements*. *Israel J. Math.* **11** (1972), 184–189.
- P. M. GIBSON, *Matrix commutators over an algebraically closed field*. *Proc. Amer. Math. Soc.* **52** (1975), 30–32.
- C. GREEN, *A multiple exchange property for bases*. *Proc. Amer. Math. Soc.* **39** (1973), 45–50.
- M. J. GREENBERG, *Note on the Cayley–Hamilton theorem*. *Amer. Math. Monthly* **91** (1984), 193–195.
- D. YU. GRIGORIEV, *The algebraic computational complexity of a family of bilinear forms*. *Zs. Vűcsiszl. Mat. i Mat. Fiz.* **19:3** (1979), 563–580 [Angolul: *J. Comp. Math. and Math. Phys.* **19** (1979).]
- E. V. HAYNSWORTH, *Applications of an inequality for the Schur complement*. *Proc. Amer. Math. Soc.* **24** (1970), 512–516.
- P. L. HSU, *On symmetric, orthogonal and skew-symmetric matrices*. *Proc. Edinburgh Math. Soc.* **10** (1953), 37–44.
- G. H. JACOB, *Another proof of the rational decomposition theorem*. *Amer. Math. Monthly* **80** (1973), 1131–1134.
- J. KAHANE, *Grassmann algebras for proving a theorem on Pfaffians*. *Linear Algebra and Appl.* **4** (1971), 129–139.
- D. C. KLEINECKE, *On operator commutators*. *Proc. Amer. Math. Soc.* **8** (1957), 535–536.
- C. LANCZOS, *Linear systems in self-adjoint form*. *Amer. Math. Monthly* **65** (1958), 665–679.
- K. N. MAJINDAR, *On simultaneous Hermitian congruence transformations of matrices*. *Amer. Math. Monthly* **70** (1963), 842–844.

- S. V. MANAKOV, *A remark on integration of the Euler equation for an N -dimensional solid body*. Funkcional. Analiz i ego Prilozsen. 10:4 (1976), 93–94 [Angolul: Functional Anal. Appl. **10** (1976)].
- M. MARCUS és H. MINC, *On two theorems of Frobenius*. Pac. J. Math. **60** (1975), 149–151.
- M. MARCUS és B. N. MOYLS, *Linear transformations on algebras of matrices*. Can. J. Math. **11** (1959), 61–66.
- , *Transformations on tensor product spaces*. Pac. J. Math. **9** (1959), 1215–1222.
- M. MARCUS és R. PURVES, *Linear transformations on algebras of matrices: the invariance of the elementary symmetric functions*. Can. J. Math. **11** (1959), 383–396.
- W. S. MASSEY, *Cross products of vectors in higher dimensional Euclidean spaces*. Amer. Math. Monthly **90** (1983), 697–701.
- R. MERRIS, *Equality of decomposable symmetrized tensors*. Can. J. Math. **27** (1975), 1022–1024.
- L. MIRSKY, *An inequality for positive definite matrices*. Amer. Math. Monthly **62** (1955), 428–430.
- , *On a generalization of Hadamard's determinantal inequality due to Szasz*. Arch. Math. **8** (1957), 274–275.
- , *A trace inequality of John von Neumann*. Monatshefte für Math. **79** (1975), 303–306.
- E. MOHR, *Einfacher Beweis der verallgemeinerten Determinantensatzes von Sylvester nebst einer Verschärfung*. Math. Nachrichten **10** (1953), 257–260.
- E. H. MOORE, *General Analysis, Part I*. Mem. Amer. Phil. Soc. **1** (1935), 197
- R. W. NEWCOMB, *On the simultaneous diagonalization of two semi-definite matrices*. Quart. Appl. Math. **19** (1961), 144–146.
- L. B. NYISZNYEVICS és V. I. BRIZGALOV, *On a problem of n -dimensional geometry*. Uszpehi Mat. Nauk **8:4** (1953), 169–172 [oroszul].
- A. M. OSTROWSKI, *On Schur's complement*. J. Comb. Theory (A) **14** (1973), 319–323.
- R. A. PENROSE, *A generalized inverse for matrices*. Proc. Cambridge Phil. Soc. **51** (1955), 406–413.
- R. RADO, *Note on generalized inverses of matrices*. Proc. Cambridge Phil. Soc. **52** (1956), 600–601.
- A. RAMAKRISHNAN, *A matrix decomposition theorem*. J. Math. Anal. and Appl. **40** (1972), 36–38.
- M. REID, *Undergraduate algebraic geometry*. Cambridge Univ. Press, Cambridge, 1988.
- JU. B. RESETNYAK, *A new proof of a theorem of Chebotarev*. Uszpehi Mat. Nauk **10:3** (1955), 155–157 [oroszul].
- W. E. ROTH, *The equations $AX - YB = C$ and $AX - XB = C$ in matrices*. Proc. Amer. Math. Soc. **3** (1952), 392–396.
- H. SCHWERT, *Direct proof of Lanczos' decomposition theorem*. Amer. Math. Monthly **67** (1960), 855–860.
- I. SEDLÁČEK, *O incidenčních maticích orientových grafů*. Časop. Pest. Mat. **84** (1959), 303–316.
- Z. ŠIDAK, *O počtu kladných prvků v mochinách nezáporné matice*. Časop. Pest. Mat. **89** (1964), 28–30.
- M. F. SMILEY, *Matrix commutators*. Can. J. Math. **13** (1961), 353–355.
- V. STRASSEN, *Gaussian elimination is not optimal*. Numerische Math. **13** (1969), 354–356.
- H. VÄLIAHO, *An elementary approach to the Jordan form of a matrix*. Amer. Math. Monthly **93** (1986), 711–714.
- H. ZASSENHAUS, *A remark on a paper of O. Taussky*. J. Math. and Mech. **10** (1961), 179–180.