

Povzetek

Delo obravnava osnovne lastnosti M-matrik. S pomočjo teorije grafov opiše vzorce predznakov elementov inverzno-pozitivnih matrik. Opiše tudi vzorce predznakov elementov inverzno-nenegativnih matrik in te matrike karakterizira z razcepi.

Math. Subj. Class. (1991): 15A48

Key words: M-matrix, sign pattern, inverse-positive matrix, inverse-nonnegative matrix, splitting

Literatura

- [1] **M. Fiedler, R. Gone**, *Charahterizations of Sign Patterns of Inverse-Positive Matrices*, Linear Algebra and Appl. **40** (1981), 237-245.
- [2] **C. R. Johnson**, *Sign Patterns of Inverse Nonnegative Matrices*, Linear Algebra and Appl. **55** (1983), 69-80.
- [3] **J. E. Peris**, *A New Characterization of Inverse-Positive Matrices*, Linear Algebra and Appl. **155** (1991), 45-58.
- [4] **R. A. Horn, C. R. Johnson**, Matrix Analysis, Cambridge University Press, 1985.
- [5] **M. Fiedler**, Special matrices and their applications in numerical mathematics, Martinus Nijhoff Publishers, 1986.
- [6] **H. Minc**, Permanents (Encyclopedia of Mathematics and its Applications), Addison-Wesley, Reading, Massachusetts, 1978.
- [7] **A. Berman, R. J. Plemmons**, Nonnegative matrices in the Mathematical Sciences, Academic, New York, 1979.