Kyurkchiev, N.
Initial approximations and methods for finding all roots with known multiplicities. (English)
Zbl 0966.41011

In this paper a theorem for simultaneous approximation of the zeros with known multiplicities of a polynomial is proved. The proposed result is more applicable than the method with quadratic rate of convergence for simultaneous calculation of all roots with known multiplicities. An example showing the improvement is given as well.

Reviewer: Angela Slavova (Sofia)

MSC:
41A28 Simultaneous approximation
12D10 Polynomials in real and complex fields: location of zeros (algebraic theorems)

Keywords:
approximations; polynomials; roots; simultaneous approximation