POLYNOMIALS WITH A SHARP CAUCHY BOUND
AND THEIR ZEROS OF MAXIMAL MODULUS

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Abstract. The moduli of zeros of a complex polynomial are bounded by the positive zero of an associated auxiliary polynomial. The bound is due to Cauchy. This note describes polynomials with a sharp Cauchy bound and the location of peripheral zeros.


Keywords and phrases: Zeros of polynomials, Cauchy bound, companion matrix, nonnegative matrix.

REFERENCES