

**Cheney, E. W.**

**Introduction to approximation theory. 2nd ed.** (English) Zbl 0535.41001  
New York: Chelsea Publishing Company. X, 259 p. \$ 14.95 (1982).

In this second edition some suggestions and corrections communicated by the readers are incorporated. For a review of the first edition (1966) see [Zbl 0161.252](#).

**MSC:**

- [41-01](#) Introductory exposition (textbooks, tutorial papers, etc.) pertaining to approximations and expansions
- [41A50](#) Best approximation, Chebyshev systems
- [41A52](#) Uniqueness of best approximation
- [41A20](#) Approximation by rational functions
- [41A10](#) Approximation by polynomials
- [41A17](#) Inequalities in approximation (Bernstein, Jackson, Nikol'skiĭ-type inequalities)
- [65D15](#) Algorithms for approximation of functions
- [41A21](#) Padé approximation
- [42C05](#) Orthogonal functions and polynomials, general theory of nontrigonometric harmonic analysis

Cited in **2** Reviews  
Cited in **114** Documents

**Keywords:**

polynomial Chebyshev approximation; algorithms; unicity; Müntz theorem; Stone theorem; polygonal approximation