

[Carlip, Walter; Somer, Lawrence](#)

**Bounds for frequencies of residues of second-order recurrences modulo  $p^r$ .** (English)

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Summary: The authors examine the frequency distribution of second-order recurrence sequences that are not  $p$ -regular, for an odd prime  $p$ , and apply their results to compute bounds for the frequencies of  $p$ -singular elements of  $p$ -regular second-order recurrences modulo powers of the prime  $p$ . The authors' results have application to the  $p$ -stability of second-order recurrence sequences.

**MSC:**

[11B37](#) Recurrences

[11A25](#) Arithmetic functions; related numbers; inversion formulas

[11A51](#) Factorization; primality

[11B39](#) Fibonacci and Lucas numbers and polynomials and generalizations

Cited in **1** Document

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[uniform distribution](#); [recurrence](#)

**Full Text:** [EMIS](#) [EuDML](#)