

Generalized Rational Function Approximation in Finite Intervals Using Zolotarev Functions

R. Levy. "Generalized Rational Function Approximation in Finite Intervals Using Zolotarev Functions." 1970 Transactions on Microwave Theory and Techniques 18.12 (Dec. 1970 [T-MTT] (1970 Symposium Issue)): 1052-1064.

The results of Chebyshev in the theory of approximation find wide application in the design of circuits and microwave components. Part of the comparatively unknown work of Zolotarev and Achieser which has found useful applications in the design of certain microwave components, especially of mixed lumped/distributed components, is described. Several new results are presented, including formulas which enable the approximation functions to be computed in a relatively simple manner.

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