A VARIANTS OF CHEBYSHEV INEQUALITY WITH APPLICATIONS

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Abstract. A variant of Chebyshev inequality is established and it is applied to obtain some inequalities for expectation, variance and cumulative distribution functions as well as to provide new proofs for some classical inequalities.


Keywords and phrases: Chebyshev inequality, expectation, variance, cumulative distribution function, trapezoid inequality, midpoint inequality, Simpson inequality.

REFERENCES