

## A UNITARY APPROACH TO SOME CLASSICAL INEQUALITIES

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*Abstract.* In this paper, we will give a unitary approach to some classical inequalities. We will show that these results could be proved in the same manner.

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### REFERENCES

- [1] E. F. BECKENBACH, R. BELLMAN, *Inequalities*, Springer Verlag, Berlin, 1961.
- [2] W. BRECKNER, T. TRIF, *Convex Functions and Related Functional Equations*, Cluj University Press, 2008.
- [3] P. S. BULLEN, *A Dictionary of Inequalities*, Kluwer Academic Publishers, Dordrecht, 2003.
- [4] P. S. BULLEN, *Handbook of Means and Their Inequalities*, Longman, 1998.
- [5] P. CERRONE, S. S. DRAGOMIR, *Mathematical Inequalities, A Perspective*, CRC Press, 2011.
- [6] G. H. HARDY, J. E. LITTLEWOOD, G. PÓLYA, *Inequalities*, Cambridge University Press, Cambridge, 1934.
- [7] M. KUCZMA, *An Introduction to the Theory of Functional Equations and Inequalities*, Birkhäuser Verlag AG, 2009.
- [8] D. S. MITRINOVIĆ, P. M. VASIĆ, *Analytic Inequalities*, Springer Verlag, Berlin, 1970.
- [9] D. S. MITRINOVIĆ, J. E. PEČARIĆ, A. M. FINK, *Classical and New Inequalities in Analysis*, Kluwer Academic Publishers, Dordrecht, 1993.
- [10] D. S. MITRINOVIĆ, *Elementary Inequalities*, Noordhoff, Groningen, 1964.
- [11] C. P. NICULESCU, L. E. PERSSON, *Convex Functions and Their Applications, A Contemporary Approach*, CMS Books in Mathematics, New York, 2006.
- [12] G. PÓLYA, G. SZEGÖ, *Problems and Theorems in Analysis I*, Springer, Berlin, 1998.
- [13] A. ROBERTS, D. VARBERG, *Convex Functions*, Academic Press, New York, 1973.
- [14] R. ROSENBAUM, *Sub-additive functions*, Duke Mathematical Journal **17** (1950), 227–247.
- [15] J. M. STELLE, *Cauchy Schwarz Master Class*, Cambridge University Press, Cambridge, 2004.