

1106-47-2863

M. Zuhair Nashed* (zuhair.nashed@ucf.edu), Department of Mathematics, University of Central Florida, Orlando, FL 32816-1346. *Applications of Hermitian Ordering and Spectral Theory to Operator and Matrix Inequalities*. Preliminary report.

We illustrate the use of Hermitian ordering and spectral theory of bounded linear operators in the derivation of operator inequalities, Kantorovich-type inequalities, and extremal characterizations of generalized inverses of operators. (Received September 16, 2014)