Driss Drissi* (drissi@mcs.sci.kuniv.edu.kw), Dept. of Mathematics & Computer Science, Kuwait University, P.O. Box 5969, Kuwait, Kuwait. On positive definiteness of solutions of matrix equations and applications".

We presente a necessary and sufficient conditions of positivite definiteness and infinite divisibility of some functions and some matrices that arise as solutions of matrix equations. Using Schur-Hadamard product we extract some matrix inequalities. (Received February 06, 2006)