

INTERIOR POINTS OF THE COMPLETELY POSITIVE CONE*

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Abstract. A matrix A is called completely positive if it can be decomposed as $A = BB^T$ with an entrywise nonnegative matrix B . The set of all such matrices is a convex cone which plays a role in certain optimization problems. A characterization of the interior of this cone is provided.

Key words. Completely positive matrices, Copositive matrices, Cones of matrices.

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