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**Koebe Invariant Functions and Extremal Problems  
for Holomorphic Mappings in the Unit Ball of  $\mathbb{C}^n$**

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**Abstract.** This work is concerned with locally biholomorphic mappings on the unit ball of complex  $n$ -dimensional space. We define a concept called K-invariance and give a complete characterization of K-invariant functions. We also explore the connection between K-invariance and the solution of extremal problems in certain linear invariant families.

**Keywords.** Locally biholomorphic mapping, linear invariance, invariant function, extremal function.

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