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On Harmonic Functions by the Hadamard Product

Abstract:

A function $f = u + iv$ defined in the domain $D \subset C$ is harmonic in D if u, v are real harmonic. Such functions can be represented as $f = h + \bar{g}$ where h, g are analytic in D. In this paper the class of harmonic functions constructed by the Hadamard product in unit disk, and properties of some of its subclasses are searched.

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