

## **Analytic solution of an $\mathbb{R}$ -linear conjugation problem in the case of hyperbolic interface**

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### **Abstract**

We derive an explicit analytical solution for the conjugation problem in a heterogeneous infinite planar structure consisting of two dissimilar homogeneous media with two branches of a hyperbola as an interface. We investigate both cases involving real and complex coefficients of the corresponding boundary condition. © 2008 Springer Science+Business Media, Inc.

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### **Keywords**

$\mathbb{R}$ -linear conjugation problem, Analytic functions, Heterogeneous media