

## On Surface Integral Representations: Validity of Huygens' Principle and the Equivalence Principle in Inhomogeneous Bianisotropic Media

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*J.C. Monzon. "On Surface Integral Representations: Validity of Huygens' Principle and the Equivalence Principle in Inhomogeneous Bianisotropic Media." 1993 Transactions on Microwave Theory and Techniques 41.10 (Nov. 1993 [T-MTT]): 1995-2001.*

Here we provide the mathematical foundation for general inhomogeneous (even discontinuous) media for the principle that Huygens devised with ingenious foresight over three hundred years ago (1690). We also validate the associated (and often used without a proof) equivalence principle as a natural extension of the isotropic formalism.

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