

# MAGNETIC SOURCE IMAGING OF THE HUMAN BRAIN

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Argues that magnetic source imaging (MSI) is an ideal complement to intended for upper-level undergraduate and graduate courses on brain imaging (in fact.

Invited Paper. Magnetic Source Imaging of the Human Brain. Zhong-Lin Lu. Human Information Processing Laboratory. Cognitive Sciences Department.

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### **Magnetic Source Imaging - Mathematics and Physics of Emerging Biomedical Imaging - NCBI Bookshelf**

This book is designed to acquaint serious students, scientists, and clinicians with magnetic source imaging (MSI)--a brain imaging technique of proven.

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The electrical potentials at the surface, on the other hand, are distorted by variations in conductivity within the body; this is especially true in the head, where the low conductivity of the skull both distorts and hides the electrical activity of the brain. If this is taken from individual three-dimensional medical images, significant computational efforts are required.

Amoresophisticatedapproachistoconstrainthereconstructionbypermitt

If you are a seller for this product, would you like to suggest updates through seller support? The magnetic field at the surface is most strongly determined by current sources directed parallel to the surface, but the electrical potentials are determined by current sources directed perpendicular to the surface.

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disadvantage of MSI is that the need for cryogenic cooling and a magnetically shielded room makes the procedure cumbersome with the present technology. Biomagnetism also offers a research tool for studying schizophrenia as well as Parkinson's and Huntington's syndromes.