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## **Electric Fields Of The Brain**

Electrical potentials on the scalp exhibit spatial and temporal patterns that depend on the nature and location of the

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sources and the way that currents and fields spread through tissue. Because these dynamic patterns are correlated with behavior and cognition, EEG provides a "window on the mind," correlating physiology and psychology.

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Electroencephalography (EEG) is practiced by neurologists, cognitive neuroscientists, and others interested in functional brain imaging. Whether for clinical or experimental purposes, all studies share a common purpose-to relate scalp potentials to the underlying neurophysiology.

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Paul L. Nunez and Ramesh Srinivasan.  
The authors pursue the Holy Grail of  
connecting psychology to physiology  
with rigorous scientific methods;  
Constructs a solid theoretical foundation



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for future EEG work; Also has impact in  
the new field of (scientific)  
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current-flow models.

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"Researchers have thought that the brain's endogenous electrical fields are too weak to propagate wave transmission," said Dominique Durand, a biomedical engineer at Case Western

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Reserve University. "But it appears the brain may be using the fields to communicate without synaptic transmissions, gap junctions or diffusion."

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In this book Leyshon, Lee and

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electric fields, generated by the neural circuits of scores of communicating neurons. The fields were once thought to be an "epiphenomenon" similar to the sound the heart makes—which is useful to the cardiologist diagnosing a faulty heart beat, but doesn't serve ...

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drives free will.

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particular part of the brain with the aim of treating neurological diseases like depression.

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Scientists at the University of California, Davis School of Medicine's Institute for



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