Muse Developer Resources

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Navigation

Intro to BCI and EEG

Want to learn about brainwaves and how to interpret them? If so, then you're probably thinking of building a Brain-Computer Interface (BCI)!

Useful Resources

Brain Computer Interfaces (BCI)

Intro to Modern Brain-Computer Interface Design (Video Lectures)
This is a great video lecture series on brain-computer interfacing. It starts very high-level so that the broader concepts are easily understandable by everyone, but many of the modules go into quite some detail on methods.
http://sccn.ucsd.edu/wiki/Introduction_To_Modern_Brain-Computer_Interface_Design

Brain-Computer Interfaces: Principles and Practices
http://www.amazon.com/Brain-Computer-Interfaces-Principles-Jonathan-Wolpaw/dp/0195388852/

Electroencephalography (EEG)

Rhythms of the Brain (Book)
This is a great book on EEG:
http://www.amazon.com/Rhythms-Brain-Gyorgy-Buzsaki/dp/0199828237

Neurofeedback

Technical Foundations of Neurofeedback
http://www.amazon.com/Technical-Foundations-Neurofeedback-Routledge-Neurotherapy/dp/041589901X

The Neurofeedback Book
http://www.amazon.com/Neurofeedback-Book-Michael-Thompson/dp/1887114068

Introduction to Quantitative EEG and Neurofeedback
http://www.amazon.com/Introduction-Quantitative-EEG-Neurofeedback-Second/dp/0123745349/

Biofeedback and the Arts: Results of Early Experiments
A book by David Rosenboom about several interesting early art projects using EEG: http://www.amazon.com/Biofeedback-arts-results-early-experiments/dp/088985002X

Event-Related Potentials (ERP)

The Oxford Handbook of Event-Related Potential Components
A good textbook/collection of papers on event-related potentials (basically characteristic waveforms that occur in EEG following some specific stimulus): http://www.amazon.com/Handbook-Event-Related-Potential-Components-Psychology/dp/0199328048

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