

### **Quantitative EEG Analysis Methods and** Applications [With CDROM] (Engineering in **Medicine & Biology)**

By Shanbao Tong



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Quantitative EEG (electroencephalography) is a cutting-edge technique used for topographic display and analysis of brain electrophysiological data. The use of quantitative EEG for diagnosing various psychiatric disorders is beginning to gain wide acceptance among professionals and researchers working in this area. This authoritative volume provides an overview of basic and advanced techniques used in quantitative EEG (qEEG) analysis. The book provides a wide range of mathematical tools used in qEEG, from single channel discriptors to the interactions among multi-channel EEG analysis. Moreover, readers find coverage of the latest and most popular application in the field, including mental and neurological disease detection/monitoring, physiological and cognitive phenomena research, and fMRI.



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#### **Editorial Review**

About the Author

Shanbao Tong is an associate professor in the Biomedical Engineering Department at Shanghai Jiaotong University. Dr. Tong is an associate editor of the IEEE Transactions on Neural Systems and Rehabilitation Engineering. He received his M.S. in turbine machine engineering and Ph.D. in biomedical engineering from Shanghai Jiaotong University. Nitish V. Thankor is a professor of biomedical engineering in the School of Medicine at Johns Hopkins University. Dr. Thankor serves on the editorial board of several journals, including the IEEE Transactions on Biomedical Engineering and Annals of Biomedical Engineering. He received a Ph.D. in electrical and computer engineering from the University of Wisconsin.

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