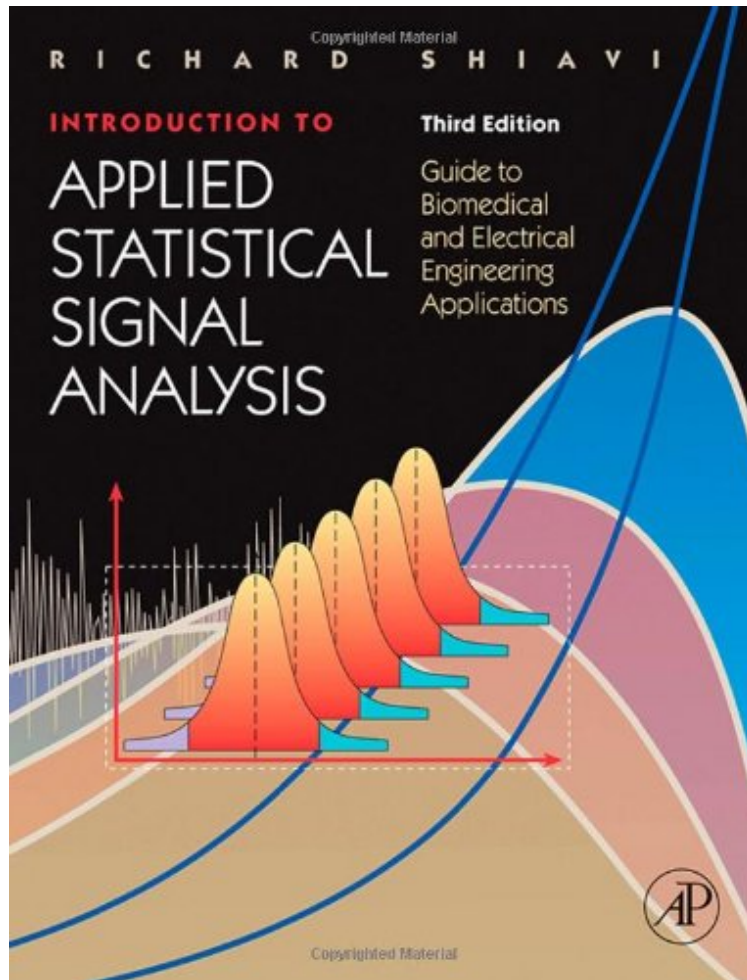


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Introduction to Applied Statistical Signal Analysis, Third Edition: Guide to Biomedical and Electrical Engineering Applications (Biomedical Engineering)

Richard Shiavi

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From the Back Cover
Biomedical Engineering, Electrical Engineering, Biomathematics
Introduction to Applied Statistical Signal Analysis
Guide to Biomedical and Electrical Engineering Applications, Third Edition
Richard Shiavi
Vanderbilt University, Nashville, Tennessee, U.S.A.
KEY FEATURES
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Introduction to Applied Statistical Signal Analysis is designed for the experienced individual with a basic background in mathematics, science, and computer. With this predisposed knowledge, the reader will coast through the practical introduction and move on to signal analysis techniques, commonly used in a broad range of engineering areas such as biomedical engineering, communications, geophysics, and speech.
Introduction to Applied Statistical Signal Analysis intertwines theory and implementation with practical examples and exercises. Topics presented in detail include: mathematical bases, requirements for estimation and detailed quantitative examples for implementing techniques for classical signal analysis. This book will help readers understand real-world applications of signal analysis as they relate to biomedical engineering.
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Richard Shiavi is Professor of Biomedical Engineering and Professor of Electrical Engineering, actively engaged in teaching and research at Vanderbilt University and the Veterans Administration Medical Center. His main professional interests are in signal processing and main research interests are in bioelectric signal processing and signal measurement. Dr. Shiavi has been an active member of Institute of Electrical and Electronic Engineers (IEEE) and the IEEE Engineering in Medicine and Biology Society (EMBS) and is presently an Associate Editor for the Transactions on Biomedical Engineering. He is also an active member and past President of the International Society of Electrophysiology and Kinesiology.