



# ECG Acquisition and Automated Remote Processing

*By Rajarshi Gupta, Madhuchhanda Mitra, Jitendranath Bera*

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The book is focused on the area of remote processing of ECG in the context of telecardiology, an emerging area in the field of Biomedical Engineering Application. Considering the poor infrastructure and inadequate numbers of physicians in rural healthcare clinics in India and other developing nations, telemedicine services assume special importance. Telecardiology, a specialized area of telemedicine, is taken up in this book considering the importance of cardiac diseases, which is prevalent in the population under discussion. The main focus of this book is to discuss different aspects of ECG acquisition, its remote transmission and computerized ECG signal analysis for feature extraction. It also discusses ECG compression and application of standalone embedded systems, to develop a cost effective solution of a telecardiology system.

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### **About the Author**

Dr. Rajarshi Gupta received his B. Tech, M. Tech and PhD (Tech) degrees in Instrumentation Engineering from University of Calcutta, India. He is currently an Assistant Professor in Instrumentation Engineering, Department of Applied Physics, University of Calcutta. His research interests are Biomedical Signal Acquisition and Telecardiology. He is a recipient of University Gold Medal. He has published 25 research papers in peer reviewed journals and conferences. He is a member of IEEE, IET (UK), IETE and BMESI, India.

Dr. Madhuchhanda Mitra has received her B. Tech, M. Tech and PhD (Tech) degrees in Instrumentation Engineering from University of Calcutta, India. She is currently an Associate Professor and Head, Department of Applied Physics, University of Calcutta. Her research areas include Biomedical Signal Processing, Material Science and Instrumentation. She has published more than 150 research papers in international journals, and conferences. She has co-authored two books, "Electric Power Quality" from Springer and "Programmable Logic Controllers and Industrial Automation: An Introduction" from Penram International and four book chapters. She is recipient of University Gold Medal and Griffiths Award from University of Calcutta.

Dr. Jitendranath Bera received his B. Tech, M. Tech degrees in Electrical Engineering from University of Calcutta and PhD (Engg) degree from Jadavpur University, India. He is currently an Associate Professor in Electrical Engineering, Department of Applied Physics, University of Calcutta, India. His research interests include Wireless Communication and Embedded Systems and he has published 50 research papers in peer reviewed journals and conferences. He is also involved into two Government funded research projects related to wireless communication for remote monitoring of electrical parameters measurement in the Department. He is a member of IEEE, IET (UK) and IETE, India.

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