



# Noninvasive Instrumentation and Measurement in Medical Diagnosis (Biomedical Engineering)

*Robert B. Northrop*

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Noninvasive medical diagnosis (NIMD) is as old as medical practice itself. From the earliest healers' observations of odors, skin color, and breath sounds to today's wealth of technologies, the basics remain the same and keep the role of NIMD essential to effective medical care.

Noninvasive Instrumentation and Measurement in Medical Diagnosis is the first book dedicated to NIMD tools and techniques. Featuring emerging technologies along with traditional instruments, it describes how these non-invasive tools and techniques work and explores developments that will make NIMD simpler, more reliable, less expensive, and risk-free. Much of the material is descriptive, but the author includes rigorous mathematical analysis where appropriate. The treatment is readily accessible to readers with a background in basic algebra and ordinary differential equations, basic circuit theory, and concepts such as frequency response and transient response of linear systems.

The rapid evolution of biomedical instrumentation has meant that books just five years old are already outdated. Whether used for an upper-level, biomedical engineering class or as a reference for medical students, healthcare professional, physicists, or physiologists, Noninvasive Instrumentation and Measurement in Medical Diagnosis stands alone in presenting the state of NIMD art and science.

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