



Microwave Noncontact Motion Sensing and Analysis

Changzhi Li, Jenshan Lin

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An authoritative guide to the theory, technologies, and state-of-the-art applications in microwave noncontact sensing and analysis

Engineering researchers have recently developed exciting advances in microwave noncontact sensing and analysis, with new applications in fields ranging from medicine to structural engineering, manufacturing to transportation. This book provides an authoritative look at the current state-of-the-art in the field.

Drawing upon their years of experience in both cutting-edge research and industry applications, the authors address microwave radar for both noncontact vital sign detection and mechanical movement measurement. They explore key advances in everyday applications of microwave and Doppler radar, especially in the areas of radio frequency technologies, microelectronic fabrication processes, and signal processing hardware and algorithms.

Microwave Noncontact Motion Sensing and Analysis:

- Reviews the theory and technical basics, from electromagnetic propagation to signal processing
- Discusses all major types of motion sensing radar, including Doppler, pulse, and FMCW
- Explores important advances in detection and analysis techniques
- Uses numerous case studies to illustrate current applications in an array of fields
- Provides integrated coverage of human vital sign detection, through-wall radar, and Doppler vibrometry
- Offers a well-informed look at emerging technologies and the shape of things to come

An important resource for engineers and researchers with a professional interest in micro-wave sensing technology, *Microwave Noncontact Motion Sensing and Analysis* is also a source of insight and guidance for professionals in healthcare, transportation safety, the military, and law enforcement.

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