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## Practical RF Biosensor Technology

By Kim, Nam Young / Dhakal, Rajendra

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | This book discussed the microwave permittivity analysis of the biological solutions, which has been the core investigation for several decades through different applications. The dielectric features of many biological fluids are unique across the microwave spectrum and offers a numerous possibility for analysis techniques. Different techniques using the metal insulated semiconductor capacitor and interdigital capacitor has been discussed. The radio frequency micro-resonator fabricated on a gallium arsenide substrate by integrated passive device (IPD) technology was designed and tested to enable the real-time identification of the glucose level in human serum. The discussed glucose sensor incorporates the air-bridge capacitor (MIS), Interdigital capacitor to enable effective quantifiable detection of glycemia in human serum. The feature characteristics based on the resonance concept after the use of serum as an analyte are modelled as an inductor, capacitor and resistor with some derived parameters. | Format: Paperback | Language/Sprache: english | 240 pp.

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