

Abstracts

Impedance loaded SAW sensors offer a wide range of measurement opportunities

R. Steindl, A. Pohl and F. Seifert. "Impedance loaded SAW sensors offer a wide range of measurement opportunities." 1999 Transactions on Microwave Theory and Techniques 47.12 (Dec. 1999 [T-MTT] (Special Issue on 1999 International Microwave Symposium)): 2625-2629.

Surface-acoustic-wave interdigital tags can be employed as passive transponders for conventional sensors of capacitive, inductive, and resistive types. An interdigital transducer is used as a loadable reflector, while other fixed reflectors are used as reference bits. The load of the programmable reflector influences both the phase and amplitude of the reflected wave. The principle is discussed, and applications for the measurement of light, pressure, and temperature are presented in this paper.

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