

Abstracts

Low power FMCW radar system for level gaging

D. Brumbi. "Low power FMCW radar system for level gaging." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1559-1562.

A novel low-power microwave sensor for level gaging in storage tanks has been developed. By using a PLL-controlled gated oscillator this FMCW radar can be operated in a standard 4-20 mA loop without additional supply power. The chosen system design features a fast settling time of the oscillators to achieve a quasi-continuous frequency sweep, resulting in a precise, stable and reliable level measuring system.

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