

# Abstracts

## Generation of Pseudonoise Sequences Using Surface Acoustic Waves (Short Papers)

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*D.P. Morgan and J.G. Sutherland. "Generation of Pseudonoise Sequences Using Surface Acoustic Waves (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.4 (Apr. 1973 [T-MTT] (Special Issue on Microwave Acoustic Signal Processing)): 306-306.*

Pseudonoise sequences can be generated by using a surface acoustic wave delay line in place of a shift register. Modulo-2 addition is achieved by combining the outputs of two transducers and using envelope detection. A 31-bit pseudonoise sequence was generated with a bit period of 1.1  $\mu$ s.

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