

# Abstracts

## Intelligent Alignment of Waveguide Filters Using a Machine Learning Approach

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*A.R. Mirzai, C.F.N. Cowan and T.M. Crawford. "Intelligent Alignment of Waveguide Filters Using a Machine Learning Approach." 1989 Transactions on Microwave Theory and Techniques 37.1 (Jan. 1989 [T-MTT]): 166-173.*

This paper investigates the use of a machine learning system applied to the tuning of waveguide filters. This system employs techniques from pattern recognition and adaptive signal processing. The manual tuning of the waveguide filters is very time consuming and expensive and a skilled operator is required. Here, the machine learning system is adapted in such a way that it can assist an unskilled operator to perform fast and accurate tuning of these filters.

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