

New Non-Uniform Waveguide Taper Design Yielding Low VSWR and High Rejection

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A new and improved theoretical method is described for the design of continuous exponential waveguide tapers which may be utilized in designing high pass filters or transitions between different sized waveguides. Comparisons are made between the new approach and commonly published designs. Experimental results from a filter, with a 1% separation between the passband and the stop band, designed by the new method are presented.

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