Abstract

In any amplifier design, it is always necessary to give utmost attention to its frequency response analysis. While applying frequency response for some application it is also important to extend the bandwidth of an amplifier. Increasing the bandwidth means increasing the upper 3 dB frequency and decreasing the lower 3 dB limit. Although there are different means by which this extension can be achieved, we have chosen the application of negative feedback for the purpose. We have derived some new topologies from these existing topologies which fulfill our bandwidth requirements. In this paper, we are presenting a new approach based on the individual standard topologies which extend the bandwidth of the standard amplifier by 30%.
Bandwidth Extension of BJT Amplifier using a Novel Cascade Topology

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Index Terms

Computer Science  
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Keywords

Frequency response  bandwidth  negative feedback  3 db frequency