

# **Prediction Of The Two-Tone Suppression And Intermodulation Performance Of Auditory Systems**

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## **Summary**

Using a model based on subcritical Hopf amplifiers, closed form expressions are obtained for two-tone suppression and the third-order intermodulation performance of the human auditory system. The proposed model approximates the Hopf amplifier characteristic using Fourier-series expansion. The parameters of the Fourier-series approximation can be easily obtained without recourse to sophisticated curve-fitting techniques. The results are compared with previously reported observations. (c) 2006 Elsevier Ltd. All rights reserved.

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