Subject: Horns, waveguides, and acoustic filter chambers
Posted by Wayne_Parham on Fri, 06 Apr 2001 17:14:59 GMT
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You may be interested in the paper called Acoustic Filters, Waveguides and Transmission Lines, by Daniel Russell of the Science and Mathematics department of GMI Institute.This paper describes acoustic filter chambers, low-pass, high-pass and band-stop. The characteristics of each type of chamber are discussed, as well as the properties required and the specific methods of solutions for each.It's a simple discussion about acoustic chambers and ducts, and provides formulas describing their properties. Acoustic chambers that provide high-pass, low-pass and band-stop (notch filter) properties are shown. The paper is written as a laboratory exercise for students of acoustics.