Subject: Distortionss
Posted by Mike.e on Mon, 15 Nov 2004 04:41:00 GMT
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Hi waynequoting"Commercial loudspeakers generally have a force function containing both square and cubic terms,the second harmonic being predominant at medium levels,and the third harmonic increasing with increasing amplitude.."-Loudspeaker and headphone handbook - John Borwick.I think the push pull arrangement will sound pretty good Question-when the loudspeaker is used ABOVE resonance,what are the distortion factors - is it only BL nonlinearity? definately below Fs the stiffness is providing linearity.Book Also shows flux distribution with flush/extended pole piece(above top plate) showing reduced 2nd harmoncis by ~10db with extended pole pieceThe book also goes into -Cone modes,w-what the concentric corrugations on cones are for,-nodal circle overtones(non harmonic!)-also some boring derivation of point source/flat piston at the beginning :P-HUGE! section on electrostatics-Sizable section on room acoustics,-enclosures and baffle resonance measurement,-measurements and evaluation,-hardly anything on horns though!I would buy this if it was cheap enough. Also 'high performance loudspeakers by martin colloms' is pretty good. SOme derivations,its abit more balanced, ie : normal amount of info on electrostatics :PProblem is that online descriptions of books tend to hardly even tell you chapter titles! ridiculous!Im thinking of Aes anthology on CD or something...
RegardsMike.e
link