Subject: Re: Where To Learn More?
Posted by Adveser on Sat, 29 Jan 2011 18:33:41 GMT
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Yes. There is. Every book on audio engineering and mixing I have found could be called "audio for dummies"

Those books are easy to read and they explain how sound works effectively enough.

The Human range of hearing is 20hz-20,000Hz (20hz-20Khz) though most people's hearing stops between 15-17Khz.

Response is generally considered the electrical output/conversion to acoustic energy (which is the movement of the speaker, not be confused with "acoustics"). I am not sure, but I think the specs are what works in a vacuum where there is no such thing as room acoustics. You can take a speaker's response as 20-40000hz as being just that. The only qualifier is the amount of space between yourself and the speaker that is required to produce a complete waveform of 56.5ft at 20hz, ~28ft at 40hz, ect.

I am not sure though because I have heard conflicting information about the ability to hear a waveform even if it physically can't exist in a space. I've been told that headphones can only reproduce the frequencies that can fit between the space between the speaker and the inner ear, but if that were true, why can I play a 20hz tone through them and it sounds like 20hz? Wayne, do you know what the deal is with this?

Check your PMs, jl