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But I want an audio signal that is half as loud as full scale, so I will use an amplitude of 16000. To the code: `import numpy as np` `import wave` `import struct` `import matplotlib.pyplot as plt` `# frequency is the number of times a wave repeats a second` `frequency = 1000` `num_samples = 48000` `# The sampling rate of the analog to digital convert` `sampling_rate = 48000.0` `amplitude = 16000` `file = "test.wav"`

A Digital Signal Processing Primer: With Applications to ...

This analog signal is then converted to a digital signal by an analog-to-digital converter and passed to the DSP. The DSP performs the MP3 encoding and

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saves the file to memory. During the playback phase, the file is taken from memory, decoded by the DSP and then converted back to an analog signal through the digital-to-analog converter so it can be output through the speaker system.

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Circles Sines and Signals - Introduction

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