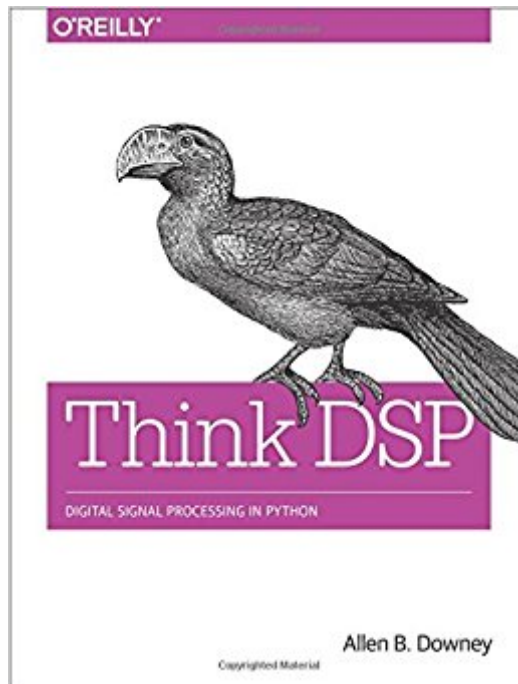## The book was found

Think DSP: Digital Signal Processing In Python

Synopsis

If you understand basic mathematics and know how to program with Python, youâ ™re ready to dive into signal processing. While most resources start with theory to teach this complex subject, this practical book introduces techniques by showing you how theyâ ™re applied in the real world. In the first chapter alone, youâ ™ll be able to decompose a sound into its harmonics, modify the harmonics, and generate new sounds.Author Allen Downey explains techniques such as spectral decomposition, filtering, convolution, and the Fast Fourier Transform. This book also provides exercises and code examples to help you understand the material.Youâ ™ll explore:Periodic signals and their spectrumsHarmonic structure of simple waveformsChirps and other sounds whose spectrum changes over timeNoise signals and natural sources of noiseThe autocorrelation function for estimating pitchThe discrete cosine transform (DCT) for compressionThe Fast Fourier Transform for spectral analysisRelating operations in time to filters in the frequency domainLinear time-invariant (LTI) system theoryAmplitude modulation (AM) used in radioOther books in this series include Think Stats and Think Bayes, also by Allen Downey.

Book Information

Paperback: 168 pages

Publisher: O'Reilly Media; 1 edition (August 4, 2016)

Language: English

ISBN-10: 1491938455

ISBN-13: 978-1491938454

Product Dimensions: 7.1 x 0.3 x 9 inches

Shipping Weight: 11.2 ounces (View shipping rates and policies)

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