

# **Musimathics The Mathematical Foundations Of Music 2 By Gareth Loy**

**The second volume of a commonsense, self-contained introduction to the mathematics and physics of music, focusing on the digital and computational domain; essential reading for musicians, music engineers, and anyone interested in the intersection of art and science.** Volume 2 of Musimathics continues the story of music engineering begun in Volume 1, focusing on the digital and computational domain. Loy goes deeper into the mathematics of music and sound, beginning with digital audio, sampling, and binary numbers, as well as complex numbers and how they simplify representation of musical signals. Chapters cover the Fourier transform, convolution, filtering, resonance, the wave equation, acoustical systems, sound synthesis, the short-time Fourier transform, and the wavelet transform. These subjects provide the theoretical underpinnings of today's music technology. The examples given are all practical problems in music and audio.

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October 21st, 2019 - dr gareth loy is an american author poser musician and mathematician loy is the author of the two volume series on the intersection of music and mathematics titled musimathics loy was an early practitioner of music synthesis at stanford and wrote the first software piler for the systems concepts digital synthesizer samson box more recently loy has published the freeware music

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