



# Musimathics: The Mathematical Foundations of Music (Volume 2)

*Gareth Loy*

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**Musimathics: The Mathematical Foundations of Music (Volume 2)** Gareth Loy

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.

Additional material can be found at <http://www.musimathics.com>.

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