Digital Signal Processing

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Abstract

This experiment experiment explored the benifits and parameter space of digital signal processing. A high-purity germanium detector was coupled simultaneously to both a digital and analog data-acquisition system. The parameters were optimized for both configurations. For the analog system, the shaping time was corrected to find a minimum of full width half maximum (FWHM) of a $59.54 KeV$ ^{241}Am γ *line. For the digital system, the discretete convolution developed by jordanov[1] as a trapazoidal shaping filter was interpreted using linear algebra methods, the fano factor was derived, and the shaping time and gap time were optimized using a combination of* γ *lines from* ^{241}Am *and* ^{60}Co

I. Introduction

II. Another section

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III. One more section

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