



# Signal Processing with Free Software: Practical Experiments (FOCUS Series)

*François Auger*

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# Signal Processing with Free Software: Practical Experiments (FOCUS Series)

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## **Signal Processing with Free Software: Practical Experiments (FOCUS Series)** François Auger

An ideal resource for students, industrial engineers, and researchers, *Signal Processing with Free Software Practical Experiments* presents practical experiments in signal processing using free software. The text introduces elementary signals through elementary waveform, signal storage files and elementary operations on signals and then presents the first tools to signal analysis such as temporal and frequency characteristics leading to Time-frequency analysis. Non-parametric spectral analysis is also discussed as well as signal processing through sampling, resampling, quantification, and analog and digital filtering.

### Table of Contents:

#### 1. Generation of Elementary Signals.

Generation of Elementary Waveform. – Elementary Operations on the Signals. – Format of Signal Storage Files.

#### 2. First tools of Signal Analysis.

Measurement of Temporal and Frequency Characteristics of a Signal. Time-Frequency Analysis of a Signal.

#### 3. Non-parametric Spectral Analysis.

#### 4. Signal Processing.

Sampling. – Resampling. – Quantification. – “Analog” Filtering.

Digital Filtering



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