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Higher Order Spectra Analysis A
Higher Order Spectra Analysis: A Non-Linear Signal Processing Framework. 1st Edition. by Chrysostomos Nikias (Author), Athina P. Petropulu (Author) 5.0 out of 5 stars 1 rating. ISBN-13: 978-0136782100.

Higher Order Spectra Analysis: A Non-Linear Signal ...
Higher Order Spectra Analysis: A Non-Linear Signal Processing Framework Chrysostomos Nikias, Northeastern University Athina P. Petropulu, Northeastern University

Nikias & Petropulu, Higher Order Spectra Analysis: A Non ...
Higher-order spectra, or polyspectra, are defined as the multidimensional Fourier transforms of higher-order cumulants. Cumulants, or polyspectra, of Gaussian processes, of order > 2, are identically zero. Thus, in theory, HOS are high signal-to-noise-ratio domains, where system identification or signal reconstruction can be performed.

Higher-Order Spectra Analysis
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Higher Order Spectra Analysis
Higher-order spectra which are defined in terms of the higher-order moments or cumulants of a signal, contain this additional information. The Higher-Order Spectral Analysis (HOSA) Toolbox provides comprehensive higher-order spectral analysis capabilities for signal processing applications.

HOSA - Higher Order Spectral Analysis Toolbox - File ...
Further, in the case of harmonic processes, the power spectrum and parametric methods based on the autocorrelation are usually sufficient, unless the data contain narrow-band Gaussian components. Higher-order cumulants and spectra are useful to isolate specific types of coupling (quadratic, cubic, etc.).

Higher-Order Spectral Analysis Toolbox - LIGO
In statistics, the term higher-order statistics (HOS) refers to functions which use the third or higher power of a sample, as opposed to more conventional techniques of lower-order statistics, which use constant, linear, and quadratic terms (zeroth, first, and second powers). The third and higher moments, as used in the skewness and kurtosis, are examples of HOS, whereas the first and second moments, as used in the arithmetic mean (first), and variance (second) are examples of low-order ...

Higher-order statistics - Wikipedia
Higher order spectra were originally introduced as spectral representations of cumulants or moments of ergodic random processes. They were used in the identification of nonlinear systems and non-Gaussian random processes and phase coupling in wave-wave interactions.

A Review of Higher Order Statistics and Spectra ...
Higher-order spectral methods enable the visualization of the transfer of energy from one frequency to another, a hallmark of nonlinear phenomena that is not visible using traditional spectral methods. The paper is organized as follows. A description of HOS methods is provided, including two illustrative examples.

Recent Applications of Higher-Order Spectral Analysis to ...
BioPharmaSpec recommends NMR analysis of proteins for a high-end assessment of higher order structure. The US FDA has stated in numerous presentations that NMR is used in their laboratories to provide a detailed assessment of higher order structure.

Secondary, Tertiary & Higher Order Structure of Proteins
Higher-Order Spectra The primary benefit of higher-order spectra (HOS), also known as higher-order frequency response func- tions, is that they provide information regarding the interaction of frequencies due to a nonlinear process.

Higher-Order Spectral Analysis of a Nonlinear Pitch and ...

Higher-order spectral analysis is by now a well-established signal analysis technique with many applications in science and engineering. However, it is also one of the strongholds of realalgebra.

Higher-order spectral analysis of complex signals ...

Generalizations Bispectra fall in the category of higher-order spectra, or polyspectra and provide supplementary information to the power spectrum. The third order polyspectrum (bispectrum) is the easiest to compute, and hence the most popular. A statistic defined analogously is the bispectral coherency or bicoherence.

Bispectrum - Wikipedia

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In addition, The HRV signal can be analyzed using different higher order spectra (HOS) (also known as polyspectra) that are spectral representations of higher order moments or cumulants of a signal (Nikias and Raghuveer 1987). Quantification of nonlinear coupling of physiological time series has been of considerable interest during recent years.

Comparison of higher order spectra in heart rate signals ...

Higher-Order Spectra Analysis: A Nonlinear Signal Processing Framework, C.L. Nikias and A.P. Petropulu, Prentice Hall Incorporated, Oppenheim Series in Signal Processing, 1993.

Publications - Rutgers University

(HOS): Refers to functions which use the third or higher power of a sample, as opposed to more conventional techniques of lower-order statistics, which use constant, linear, and quadratic terms. Learn more in: Epilepsy Recognition by Higher Order Spectra Analysis of EEG Signals

What is Higher Order Spectra | IGI Global

As a result the bispectrum is particularly of use when the analyst wishes to detect quadratic (or other even powers of) nonlinearity. The next in the series of higher-order spectra is the fourth-order spectra, the trispectrum. The trispectrum is particularly useful when analysing a signal for cubic (or other odd powers of) nonlinearity.

Higher-order spectra for identification of nonlinear modal ...

Spectral analysis or Spectrum analysis is analysis in terms of a spectrum of frequencies or related quantities such as energies, eigenvalues, etc.In specific areas it may refer to: Spectroscopy in chemistry and physics, a method of analyzing the properties of matter from their electromagnetic interactions; Spectral estimation, in statistics and signal processing, an algorithm that estimates ...