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In this article we present a review on non-linear and non-stationary signal analysis methods in electrical systems with high NCSRE penetration. To this end we explore the application of the Hilbert-Huang Transform (HHT), Wavelet Transform (WT) and Wigner-Ville Distribution (WVD), exposing each of the advantages and disadvantages of these methods.

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The Hilbert-Huang transform (HHT) is a new method for the analysis of nonstationary signals that allows a signal's frequency and amplitude to be evaluated with excellent time resolution. In this paper, the HHT method is described, and its performance is compared with the Fourier methods of spectral analysis.

*Application of the Hilbert-Huang Transform to the Analysis ...*

In this context, Hilbert space played a role in the development of quantum mechanics, and it has continued to be an important mathematical tool in applied mathematics and mathematical physics. In analysis, the discovery of Hilbert space ushered in functional analysis, a new field in which mathematicians study the properties of quite general linear spaces.

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In Section 2, we start with the spectral analysis of the Lax pair of and then we shall formulate the corresponding Riemann-Hilbert problem for this equations. In Section 3 , we shall solve the Riemann-Hilbert problem and discuss the spatial and temporal evolutions of scattering data.

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