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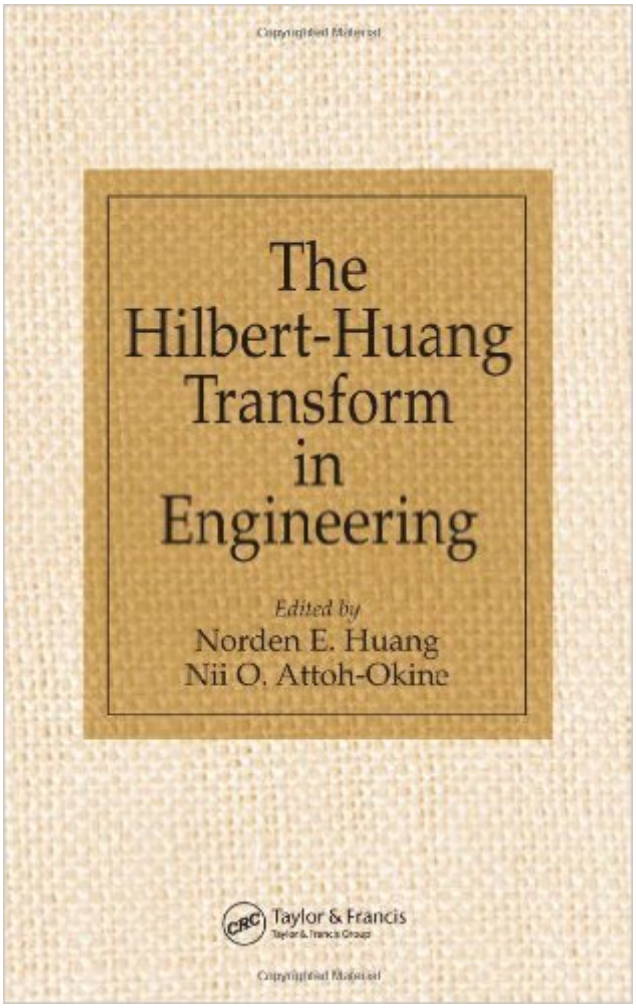
The Hilbert-Huang Transform In Engineering



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Synopsis

Data used to develop and confirm models suffer from several shortcomings: the total data is too limited, the data are non-stationary, and the data represent nonlinear processes. The Hilbert-Huang transform (HHT) is a relatively new method that has grown into a robust tool for data analysis and is ready for a wide variety of applications.This text presents the first thorough presentation of the formulation and application of the Hilbert-Huang Transform (HHT) in engineering. After an introduction and overview of recent advances, thirty leading international experts explore the use of the HHT in areas such as oceanography, nonlinear soil amplification, and non-stationary random processes. One chapter offers a comparative analysis between HHT wavelet and Fourier transforms, and another looks at the HHT applied to molecular dynamic simulations. The final chapter provides perspectives on the theory and practice of HHT and reviews applications in disciplines ranging from biomedical, chemical, and financial engineering to meteorology and seismology.The Hilbert-Huang Transform in Engineering features a variety of modern topics, and the examples presented include wide-ranging, real-life engineering problems. While the development of the HHT is not yet complete, this book clearly demonstrates the power and utility of the method and will undoubtedly stimulate further interest, theoretical advances, and innovative applications.

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