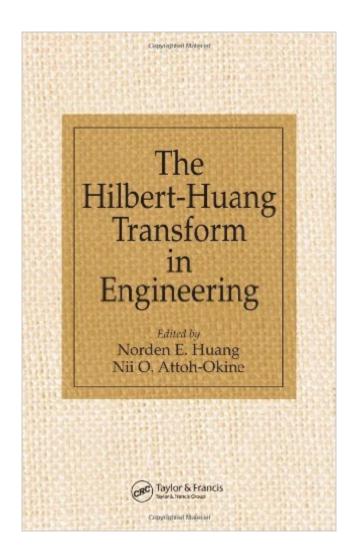
The book was found

The Hilbert-Huang Transform In Engineering





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.

Book Information

Hardcover: 328 pages

Publisher: CRC Press; 1 edition (June 23, 2005)

Language: English

ISBN-10: 1932159460

ISBN-13: 978-1932159462

ASIN: 0849334225

Product Dimensions: 1 x 6.2 x 9.2 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,693,054 in Books (See Top 100 in Books) #384 in Books > Computers & Technology > Graphics & Design > Computer Modelling > Remote Sensing & GIS #392 in Books > Science & Math > Earth Sciences > Geography > Information Systems #1383 in Books >

Textbooks > Engineering > Civil Engineering

Download to continue reading...

The Hilbert-Huang Transform in Engineering The Zen Teachings of Huang Po: On The Transmission Of Mind Su Wen, Canon de Medicina Interna del Emperador Amarillo: Huang Di Nei Jing, Su Wen (Spanish Edition) The Complete I Ching _ 10th Anniversary Edition: The Definitive Translation by Taoist Master Alfred Huang An Introduction to the Theory of Reproducing Kernel Hilbert Spaces (Cambridge Studies in Advanced Mathematics) An Introduction to Hilbert Space and Quantum Logic (Problem Books in Mathematics) Hilbert's Mathematical Day: Answers to the Greatest Math Questions of the 21st Century Transform Circuit Analysis for Engineering and Technology (4th Edition) Transform Circuit Analysis for Engineering and Technology (Electronic Technology) Earthquake Engineering: From Engineering Seismology to Performance-Based Engineering Fundamentals of Earthquake Engineering (Civil engineering and engineering mechanics series) G.Dieter's Li.Schmidt's Engineering 4th (Fourth) edition(Engineering Design (Engineering Series) [Hardcover])(2008) Tissue Engineering I: Scaffold Systems for Tissue Engineering (Advances in Biochemical Engineering/Biotechnology) (v. 1) If You Change Your Words It Will Transform Your Life Sacred Rhythms Participant's Guide: Spiritual Practices that Nourish Your Soul and Transform Your Life Data Analytics: Practical Data Analysis and Statistical Guide to Transform and Evolve Any Business Leveraging the Power of Data Analytics, Data Science, ... (Hacking Freedom and Data Driven Book 2) The Definitive Guide To the Best Way to Turn Your Nook HD+ Into a Full Android Tablet (The Best Way To Transform Your Nook Into a Full Android Tablet Book 1) The Definitive Guide To the Best Way to Turn Your Nook HD Into a Full Android Tablet (The Best Way To Transform Your Nook Into a Full Android Tablet Book 2) It's All Greek to Me: Transform Your Health the Mediterranean Way with My Family's Century-Old Recipes The Plan: Eat Well Lose Weight Transform Your Life

Dmca