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and Applications (World Scientific Nonlinear Science Series a) (9789810221461): Leonov, Gennady A, Ponomarenko, Dimitrij V, Smirnova, V B: Books

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linearized frequency domain solver, where the modes are coupled and require simultaneous solution of both the time-averaged and unsteady terms. Although some of the nonlinearities are addressed in the time-averaged solution, the higher order terms are still neglected in the solution of the unsteady modes. In addition, the

~~Demonstration of Nonlinear Frequency Domain Methods~~

Abstract. The widespread acceptance of frequency domain techniques for linear and time invariant systems has been an impetus for the extension of these methodologies toward nonlinear systems. However, differences and equivalences between alternative methods have been less addressed. This paper provides a comparative overview of four classes of frequency domain methods for nonlinear systems: Volterra based models, nonlinear frequency response functions / Bode plots, describing functions and ...

~~A comparative overview of frequency domain methods for ...~~

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A new frequency domain method for nonparametric identification of nonlinearities in dynamic systems is presented. • The so-called describing surface method is based on response controlled stepped sine test. • Nonlinear stiffness and damping values are identified as a function of vibration amplitude and frequency. •

~~A frequency domain nonparametric identification method for ...~~
folded configuration. To this end, a nonlinear subspace identification technique formulated in the frequency domain, referred to as the FNSI method, is exploited. The frequency response functions of the underlying linear structure and the nonlinear coefficients are estimated by this approach. Nonlinearity is caused by impacts between adjacent

~~Frequency domain Subspace Identification of Nonlinear ...~~

The nonlinear time-domain method is used for validations of two frequency domain methods: nonlinear harmonic and phase solution method. A typical time-domain solver run for this case takes about 3 days on a single CPU with a 2 GHz Intel Xeon CPU.

~~Comparison of Frequency Domain and Time Domain Methods for ...~~

Although fruitful studies have been conducted on carrier frequency

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offset (CFO) estimations in linear coherent optical fiber communication systems, there are few studies on CFO estimations and recoveries in the systems based on the nonlinear Fourier transform (NFT). Although the CFO is originated from the linear frequency domain, it definitely has effects on nonlinear spectra, including the ...

~~OSA | Frequency offset estimation for nonlinear frequency ...~~

Harmonic balance is a method used to calculate the steady-state response of nonlinear differential equations, and is mostly applied to nonlinear electrical circuits. It is a frequency domain method for calculating the steady state, as opposed to the various time-domain steady state methods. The name "harmonic balance" is descriptive of the method, which starts with Kirchhoff's Current Law written in the frequency domain and a chosen number of harmonics.

~~Harmonic balance — Wikipedia~~

Fig. 1 Hybrid pulsed photoexcitation and frequency-domain detection of gigahertz phonons in semiconducting nanomembranes. (A) An all-optical-based approach for enhancing and controlling the spectral shape and intensity of spatially confined gigahertz acoustic signals. The femtosecond pulses are focused on a semiconducting

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nanomembrane (260 nm Si). The continuous wave (CW) laser light (532 nm ...

~~Frequency domain study of nonthermal gigahertz phonons ...~~

Methods for analysis. Methods for time series analysis may be divided into two classes: frequency-domain methods and time-domain methods. The former include spectral analysis and wavelet analysis; the latter include auto-correlation and cross-correlation analysis. In the time domain, correlation and analysis can be made in a filter-like manner using scaled correlation, thereby mitigating the ...

~~Time series - Wikipedia~~

Non-Linear HRV. Time and frequency domain measures of HRV quantify HRV on various time scales. Nonlinear HRV quantifies the structure or complexity of the heart rate pattern. For example, a random series of heart beats, a series of heart beats from a normal person and a totally periodic series of heart beats that goes up and down like a wave the exact same standard deviation (SDNN, a time domain measure of HRV), but their underlying organization would be clearly be completely different.

~~Non-Linear HRV | Cardiovascular Division Heart Rate ...~~

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A wave-vector-frequency-domain method is presented to describe one-directional forward or back-ward acoustic wave propagation in a nonlinear homogeneous medium. Starting from a frequency-domain representation of the second-order nonlinear acoustic wave equation, an implicit solution for

~~Evaluation of a wave vector frequency domain method for ...~~

The result are several algorithms for nonlinear analysis and identification. The ones giving best results were the frequency based methods Reverse Path and a Frequency Domain Structure Selection Method (FDSSA).

~~Identification and Analysis of Nonlinear Systems~~

For nonlinear systems, frequency-domain analysis methods from time-domain models include the generalised frequency response functions (GFRFs) and the nonlinear output frequency response functions (NOFRFs), which both aid in analysing phenomena such as sub- and super-harmonics as well as resonances and energy transfer between frequencies, .

~~Frequency domain analysis for nonlinear systems with time ...~~

An Improved Wave-Vector Frequency-Domain Method for Nonlinear Wave

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Modeling yun Jing, Molei Tao, and Jonathan cannata Abstract—In this paper, a recently developed wave-vector frequency-domain method for nonlinear wave modeling is im-proved and verified by numerical simulations and underwater experiments.

~~An Improved Wave Vector Frequency Domain Method for ...~~

This paper provides a comparative overview of four classes of frequency domain methods for nonlinear systems: Volterra based models, nonlinear frequency response functions / Bode plots, describing functions and linear approximations in the presence of nonlinearities. Each method is introduced using consistent nomenclature and terminology, which ...

~~A comparative overview of frequency domain methods for ...~~

The updated estimates of the nonlinear terms are transformed back into the frequency domain in order to continue iterating on the frequency spectrum of the steady-state response. The method is demonstrated by solving a problem with friction damping in which the excitation has multiple discrete frequencies. Type de document : Article dans une revue

~~An Alternating Frequency/Time Domain Method for ...~~

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This paper introduces a new frequency-domain subspace-based method for the identification of nonlinear mechanical systems. The technique exploits frequency-domain data and interprets nonlinearities as feedback forces exciting the underlying linear system.

~~Frequency domain subspace identification for nonlinear ...~~

A Frequency Domain Versus a Time Domain Identification Technique for Nonlinear Parameters Applied to Wire Rope Isolators. Article (PDF Available) ... nonlinear identification methods.

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