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This book aims to bridge the gap between Linear Parameter-Varying (LPV) modeling and control by investigating fundamental questions of modeling and identification. It explores missing details of LPV system theory that have hindered the formulation of a well established identification framework. By proposing a unified LPV system theory, based on a behavioral approach, the concepts of representations, equivalence transformations and means to compare model structures are re-established, giving ...

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Introduction. Through the past 20 years, the

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Parameter-Varying Systems (LPV) systems has become a promising system theoretical approach to handle the control of mildly nonlinear and especially position dependent systems which are common in mechatronic applications and in the process industry. The birth of this system class was initiated by the need of engineers to achieve better performance for nonlinear and time-varying dynamics, common in many industrial applications, than what ...

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Abstract. In this paper, a time-frequency algorithm based on adaptive chirplet transform for parameter modeling and identification of Linear Time-Varying (LTV) systems under random excitation is presented. It is assumed that the solution of responses of LTV structures is expressed as the sum of multicomponent Linear Frequency Modulated (LFM) signals in a short-time.

Modeling and parameter identification of linear time ...

Modeling and Identification of Linear Systems from Input-Output Data Samudre N. A. Assistant Professor, Department of

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Instrumentation Engineering, VPM 's Maharshi Parshuram College of Engineering, Ratnagiri. Abstract System Identification is the determination of the system model of a dynamic system based on measured input-output data.

Modeling and Identification of Linear Systems from Input ...

This book explores the missing details of the linear parameter-varying (LPV) system theory that have hindered the formulation of a well established identification framework. It covers the key issues from system theory to modeling and identification.

—Modeling and Identification of Linear Parameter Varying ...

Abstract. The use of orthogonal basis functions has a long history in system theory, particularly in the field of system approximation and system identification.

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Well-known examples are the Pulse and Laguerre functions, both special cases of a more general construction of orthogonal bases. During the last years convincing evidence has been obtained that the use of these orthogonal bases has many advantages in the accurately modelling/identifying of linear systems.

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Alternatively the structure or model terms for both linear and highly complex nonlinear models can be identified using NARMAX methods. This approach is completely flexible and can be used with grey box models where the algorithms are primed with the known terms, or with completely black box models where the model terms are selected as part of the identification procedure.

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System identification is a method of identifying or measuring the mathematical model of a system from measurements of the system inputs and outputs. The applications of system identification include any system where the inputs and outputs can be measured and include industrial processes, control systems, economic data, biology and the life sciences, medicine, social systems and many more. A nonlinear system is defined as any system that is not linear, that is any system that does not satisfy the

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a linear parameter varying lpv model and its new identification scheme are proposed for monitoring the status of a system as the subsystem parameters are generally inaccessible during the offline identification stage emulators which are transfer function blocks are included at the measurement outputs to simulate different operating scenarios including the nominal and abnormal ones

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Three mapping methods, including inclusive composite interval mapping (ICIM), genome-wide composite interval mapping (GCIM), and a mixed linear model performed with forward – backward stepwise (NWIM), were used to identify QTLs for thousand grain weight (TGW), grain width (GW), and grain length (GL).

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