

State Variable Approach

The conventional control theory which is applicable to linear time-invariant systems having single input and single output has already been discussed. The conventional control theory cannot be applied for time varying and/or non-linear systems. In the conventional control theory the main theme is to formulate the transfer function putting all initial conditions to zero. On the other hand, state variable analysis, i.e., the modern control theory automatically, takes care of initial conditions and it is also possible to analyse time-varying or time-invariant, linear or non-linear, single or multiple input-output systems. The main purpose of this chapter is to introduce state variable analysis.

State Variable Analysis

17.1 ADVANTAGES AND DISADVANTAGES OF MODERN CONTROL THEORY

Advantages

- It is possible to analyse time-variant or time-invariant, linear or non-linear, single or multiple input-output systems.
- It is possible to confirm the state of the system parameters also and not merely input-output relations.
- It is possible to optimise the systems useful for optimal design.
- It is possible to include initial conditions.

Disadvantages

- Techniques are complex.
- Many computations are required.

17.2 BASIC CONCEPTS

State: The state of a dynamic system is the smallest set of variables and the knowledge of these variables at $t = t_0$ together with inputs for $t \geq t_0$ completely determines the behaviour of the system at $t \geq t_0$. A compact and concise representation of the past history of the system can be termed as the state of the system.

State variables: The smallest set of variables that determine the state of the system are known as state variables. The knowledge of capacitor, voltage at $t = 0$, i.e., the initial voltage of the capacitor is a history-dependent term and it forms a state variable. Similarly, initial current in an inductor is treated as a state variable.

State vector: The n state variables that completely describe the behaviour of a given system are said to be n components of a vector.

State space: The n -dimensional space whose coordinate axes consist of the x_1 axis, x_2 axis, ..., x_n axis is known as a state space.

State Variable Approach To Continuous Es

VM Jensen



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Robust Artificial Intelligence for Neurorobotics Subramanian Ramamoorthy, Joe Hays, Christian Tetzlaff, 2022-01-31

Discrete-time and Continuous-time Linear Systems Robert J. Mayhan, 1984

System Identification 2003 Paul Van Den Hof, Bo Wahlberg, Siep Weiland, 2004-06-29 The scope of the symposium covers all major aspects of system identification experimental modelling signal processing and adaptive control ranging from theoretical methodological and scientific developments to a large variety of engineering application areas It is the intention of the organizers to promote SYSID 2003 as a meeting place where scientists and engineers from several research communities can meet to discuss issues related to these areas Relevant topics for the symposium program include Identification of linear and multivariable systems identification of nonlinear systems including neural networks identification of hybrid and distributed systems Identification for control experimental modelling in process control vibration and modal analysis model validation monitoring and fault detection signal processing and communication parameter estimation and inverse modelling statistical analysis and uncertainty bounding adaptive control and data based controller tuning learning data mining and Bayesian approaches sequential Monte Carlo methods including particle filtering applications in process control systems motion control systems robotics aerospace systems bioengineering and medical systems physical measurement systems automotive systems econometrics transportation and communication systems Provides the latest research on System Identification Contains contributions written by experts in the field Part of

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Mathematics of the Analysis and Design of Process Control Pierre Borne,S. G. Tzafestas,Nour-Eddine Radhy,1992 Ample information reflecting the state of the art of the field of mathematics applied to the analysis and design of process control is presented in this volume It includes recent results concerning new methodologies applied to technological systems as well as non conventional control techniques and the presentation of significant examples of implementation R D and Research laboratory participants postgraduate students and engineers will all find this book to be invaluable *Proceedings of ... IEEE Southeast-con, Region 3 Conference* ,1978

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