

# 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

**M Planty**



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*Identification and System Parameter Estimation 1982* G. A. Bekey, G. N. Saridis, 2016-06-06 *Identification and System Parameter Estimation 1982* covers the proceedings of the Sixth International Federation of Automatic Control IFAC Symposium The book also serves as a tribute to Dr Naum S Rajbman The text covers issues concerning identification and estimation such as increasing interrelationships between identification estimation and other aspects of system theory including control theory signal processing experimental design numerical mathematics pattern recognition and information theory The book also provides coverage regarding the application and problems faced by several engineering and scientific fields that use identification and estimation such as biological systems traffic control geophysics aeronautics robotics economics and power systems Researchers from all scientific fields will find this book a great reference material since it presents topics that concern various disciplines

Artificial Neural Networks - ICANN 2008 Vera Kurkova-Pohlova, Jan Koutnik, Roman Neruda, 2008-09-08 This two volume set LNCS 5163 and LNCS 5164 constitutes the refereed proceedings of the 18th International Conference on Artificial Neural Networks ICANN 2008 held in Prague Czech Republic in September 2008 The 200 revised full papers presented were carefully reviewed and selected from more than 300 submissions The first volume contains papers on mathematical theory of neurocomputing learning algorithms kernel methods statistical learning and ensemble techniques support vector machines reinforcement learning evolutionary computing hybrid systems self organization control and robotics signal and time series processing and image processing

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

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

**Frontiers of Pattern Recognition** Satoshi Watanabe, 2014-05-10 *Frontiers of Pattern Recognition* contains the proceedings of the International Conference on Frontiers of Pattern Recognition which took place on January 18 20 1971 at the University of Hawaii Honolulu The compendium consists of 30 papers from authorities from eleven different countries which describe the frontiers of pattern recognition as viewed from diverse viewpoints Topics discussed include some techniques for recognizing structures in pictures grammatical inference syntactic pattern recognition and stochastic languages and pattern cognition and the organization of information Also covered are subjects on human face recognition cluster analysis and learning algorithms of pattern recognition in non stationary conditions Computer scientists mathematicians statisticians linguists and psychologists will find the book informative

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

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