

What is State Space Analysis?

General State Space form of Physical System.

$$\dot{x} = Ax + Bu$$

State equation

$$y = Cx + Du$$

output equation

x = state vector

$\dot{x}$ = derivative of the state vector with respect to time

y = output vector

u = input or control vector

A = system matrix

B = input matrix

C = output matrix

D = Feed forward matrix

$$\dot{x} = Ax + Bu$$

$$y = Cx + Du$$

$$A = \begin{bmatrix} 0 & 0 & \cdots & 0 & -a_n \\ 1 & 0 & \cdots & 0 & -a_{n-1} \\ 0 & 1 & \cdots & 0 & -a_{n-2} \\ \vdots & \vdots & & \vdots & \vdots \\ 0 & 0 & \cdots & 1 & -a_1 \end{bmatrix}; B = \begin{bmatrix} b_n - a_n b_0 \\ b_{n-1} - a_{n-1} b_0 \\ \vdots \\ b_1 - a_1 b_0 \end{bmatrix}$$

$$C = [0 \quad 0 \quad \cdots \quad 0 \quad 1]; D = b_0$$



Electrical 4 U

State Space Analysis An Introduction

Katsuhiko Ogata



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Electric Circuit Analysis S. N. Sivanandam, 2009-11-01 This book Electric Circuit Analysis attempts to provide an exhaustive treatment of the basic foundations and principles of circuit analysis which should become an integral part of a student's knowledge in his pursuit of the study of further topics in electrical engineering The topics covered can be handled quite comfortably in two academic semesters Numerous solved problems are provided to illustrate the concepts In addition a large number of exercise problems have been included at the end of each chapter This revised edition covers some additional topics separately in an appendix Further some revisions and corrections have been incorporated in the text as per the suggestions given by teachers and students of electrical engineering The book draws upon three decades of teaching experience of the author in this subject Students are advised to work out the problems and enhance their learning and knowledge of the subject The book includes objective type questions to help students prepare for competitive examinations

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