

What is State Space Analysis?

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

$$y = Cx + Du$$

General State Space form of Physical System.

$$\dot{x} = Ax + Bu \quad \text{State equation}$$

$$y = Cx + Du \quad \text{output equation}$$

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

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

$$C = [0 \ 0 \ \dots \ 0 \ 1]; D = b_0$$



Electrical 4 U

State Space Analysis An Introduction

WJ Hussar



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