

Department of Electrical Engineering, IIT (BHU) Varanasi
EE-312 Physical Significance of Mathematical Methods

Tutorial

State Space Modeling and Equilibrium Points

Mathematical modeling using Lagrangian



Figure 1: Manipulator

Example: The manipulator shown in Figure 1 has a rotating joint followed by a linear joint. The whole mass of links is concentrated at the center of mass. Drive the dynamic equations for the manipulator.
Solution: Linear velocity of first center of mass,

$$v_{c1} = L_1 \dot{\theta}_1 \quad (1)$$

Kinetic energy of link 1 is

$$K_1 = (1/2)m_1 L_1^2 \dot{\theta}_1^2 \quad (2)$$

Linear velocity of second center of mass is

$$v_{c2} = \sqrt{(d_2^2 \dot{\theta}_1^2 + \dot{d}_2^2)} \quad (3)$$

Kinetic energy of link 2 is

$$K_2 = (1/2)m_2(d_2^2 \dot{\theta}_1^2 + \dot{d}_2^2) \quad (4)$$

Hence the total kinetic energy of the manipulator is

$$K = K_1 + K_2 \quad (5)$$

Ubter Electrical 2 Year Course

WJ Hussar



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Ubter Electrical 2 Year Course Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Ubter Electrical 2 Year Course**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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