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21 The Inverted Pendulum

Where The Lagrangian L= T Uis The Di Erence Between The Kinetic And Potential Energies Of The Bob. The Kinetic Energy Of The Bob Is Given By Mv2=2, Where Vis The Velocity Of The Bob. In Terms 1. 2 Lab 21. The Inverted Pendulum Figure 21.1: The Frame Of Reference For The Simple Pendulum Problem. Of , The Kinetic Energy Becomes T= M 2 V2 = M 2 ... 6th, 2024

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Ment Mounted On A Rotary Servo Base Unit, Both Manufactured By Quanser 3 2.1 Conventions

Used For Angle And Frame Placement. The Physical Elements Of The Experi-mental Apparatus(a) are Represented Schematically In(b) where The Horizontal Arm Is The Red Line Segment That Goes Form P 7th, 2024

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Le \setup Lab Ip01 2 Sip.m" Posted On The Course Web Page (Blackboard). So Do Not Manually Type A And B In MATLAB. Because The Inverted Pendulum Is Unstable And The State Equation $X_{-} = Ax + Bv$ Is The Linear Approximation For The Inverted Pendulum, The Matrix A Is Unstable 10th, 2024

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