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* Mathematics, dynamics, control, sensing, and planning for robot manipulators. Given the state of maturity of the subject and the vast diversity of students who study this material, we felt the need for a book which presents a slightly more abstract (mathematical) formulation of the kinematics, dynamics, and control of robot manipulators.

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So in terms of our general notation, we have $x(t) = (w(t), q(t))$ and $x(0) = (w_0, q_0)$. We are taking the running payoff to be $r = 0$, and the terminal payoff $g(w, q) = q$. The answer will again turn out to be a bang-bang control, as we will explain later. EXAMPLE 3: A PENDULUM.

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kinematics, dynamics, control, sensing, and planning for robot manipulators. Given the state of maturity of the subject and the vast diversity of students who study this material, we felt the need for a book which presents a slightly more abstract (mathematical) formulation of the kinematics, dynamics, and control of robot manipulators.

A Mathematical Introduction to Robotic Manipulation

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Mathematical Introduction To Control Theory, A (Second ...

This textbook presents, in a mathematically precise manner, a unified introduction to deterministic control theory. With the exception of a few more advanced concepts required for the final part of the book, the presentation requires only a knowledge of basic facts from linear algebra, differential equations, and calculus.

Mathematical Control Theory - An Introduction | Jerzy ...

Striking a careful balance between mathematical rigor and engineering-oriented applications, this textbook aims to maximize the readers' understanding of both the mathematical and engineering aspects of control theory. The bedrock elements of classical control theory are comprehensively covered: the Routh-Hurwitz theorem and applications, Nyquist diagrams, Bode plots, root locus plots, the ...

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and self-contained introduction to the rich and elegant mathematical theory of compressive sensing. It presents all the necessary background material without assuming any special prior knowledge—just basic analysis, linear algebra, and probability theory. The perspective adopted here is definitely a mathematical one, only complete.

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