

Motor Modeling and Position Control Lab

Week 3: Closed Loop Control

1. Review

In the first week of motor modeling lab, a mathematical model of a DC motor from first principles was derived to obtain a first order system. The open and closed loop (proportional-derivative) control was implemented specifically for this motor model. In the second week, a physical DC motor (Quanser SRV-02) was used for open-loop control implementation and the first order transient characteristics were observed. Based on the model response, DC motor parameters (time constant) were estimated both by hand-calculations as well as using MATLAB. You should have also observed in the open loop control of actual DC motor that the motor positions start to drift over time indicating continuous accumulation of error within the system. Another observation that should have been made is that there is no way to enforce the output of the motor to track the input voltage in the absence of any feedback loop.

In the final week of this lab, you will try to address some of these issues by realizing the benefits of closed-loop control of DC motor. In particular, you will:

1. study transient characteristics of a typical second order system and evaluate model or system responses using these specifications.
2. extend the closed loop control implemented in the first week of this lab to the actual DC motor
3. analyze the effects of proportional-, derivative- and integral- control individually and in combination on the closed loop response of motor
4. solve a position control problem by calculating PD controller gains analytically and validate the control by monitoring the motor response for different desired trajectories
5. design a PID controller for the actual DC motor using Ziegler-Nichols' method and compare the performance with that of the PD controller

2. DC Motor Model

We derived the mathematical model of DC motor earlier and obtained the following first order transfer function that relates the motor velocity (rad/s) to input voltage (V) as:

$$\frac{\Omega_0(s)}{V_m(s)} = \frac{K}{\tau s + 1} \quad (1)$$

where τ is the mechanical time constant of the system, and K is the steady state gain(also known as DC gain).

Since, angular position can be obtained by integration of angular velocity, the open loop transfer function between angular position (rad) and input voltage (V) can be obtained from (1) as in (2):

$$\frac{\Theta_0(s)}{V_m(s)} = \frac{K}{s(\tau s + 1)} = \frac{K}{\tau s^2 + s} = \frac{a}{s^2 + bs} \quad \therefore \Theta_0(s) = \frac{1}{s} \Omega_0(s) \quad (2)$$

Motor Modeling And Position Control Lab Week 3 Closed

David Kirk



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New Realities, Mobile Systems and Applications Michael E. Auer, Thrasyvoulos Tsiatsos, 2022-04-08 This book devotes to new approaches in interactive mobile technologies with a focus on learning Interactive mobile technologies are today the core of many if not all fields of society Not only the younger generation of students expects a mobile working and learning environment And nearly daily new ideas technologies and solutions boost this trend To discuss and assess the trends in the interactive mobile field are the aims connected with the 14th International Conference on Interactive Mobile Communication Technologies and Learning IMCL2021 which was held online from 4 to 5 November 2021 Since its beginning in 2006 this conference is devoted to new approaches in interactive mobile technologies with a focus on learning Nowadays the IMCL conferences are a forum of the exchange of new research results and relevant trends as well as the exchange of experiences and examples of good practice Interested readership includes policy makers academics educators researchers in pedagogy and learning theory school teachers learning Industry further education lecturers etc *Aerial Age Weekly* ,1922

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The Top Books of the Year Motor Modeling And Position Control Lab Week 3 Closed The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. Motor Modeling And Position Control Lab Week 3 Closed : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Motor Modeling And Position Control Lab Week 3 Closed : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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