

Lecturer:

(Name)

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 UNIVERSITY OF TECHNOLOGY - VNUHCM FACULTY OF EEE	FINAL EXAM		Semester/Academic year	2	2019-2020	
			Date	20/7/2020		
	Course title	Nonlinear and Adaptive Control				
	Course ID	409403				
	Duration	90 mins.	Question sheet code			
Students are allowed to use references, but not mobile phones and laptops						

(L.O.2.1) (3.5 points) Given a plant: $G(s) = \frac{10(s+1)}{s^2(s+4)}$ ()

Design a model reference controller to control the output of the plant to follow the output of the reference model below. Plot the block diagram of the control system after design.

$$R(s) = \frac{4}{(s+2)^2} \quad ()$$

(L.O.2.4) (4.0 points) Given a discrete plant with the transfer function:

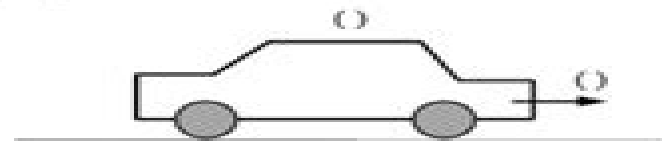
$$G(z) = \frac{Y(z)}{U(z)} = \frac{z}{z^2(z+1)} \quad \left(\text{with } \left| \frac{z}{1} \right| < 1 \right)$$

Design a self-tuning model reference controller such that the output of the plant follows the output of the reference model:

$$R(z) = \frac{Y(z)}{U(z)} = \frac{0.6}{(z-0.4)}$$

Write the expression to calculate the control signal $U(z)$ in the time domain.

(L.O.2.5) (2.5 points)



Consider a car described by the transfer function: $G(s) = \frac{Y(s)}{U(s)} = \frac{40}{s(s+1)}$

In which $U(s)$ is the force generated by the engine, $Y(s)$ is the position of the car, and m is the changing mass of the car. Suppose that the mass m can be measured by using a sensor. Design a PD gain scheduling controller such that the closed loop system has a pair of complex poles with $\xi = 0.8$ and $\omega_n = 2$. Plot the block diagram of the control system after design.

--- END ---

Answers For Final Physics Exam 2nd Semester

Donald E. Hattin



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Annual Catalog - United States Air Force Academy United States Air Force Academy,1971 United States Air Force Academy United States Air Force Academy,1972 **Annual Catalogue** United States Air Force Academy,1985 2003 *Physics Education Research Conference* Jeffrey Marx,Scott Franklin,Karen Cummings,2004-09-09 Papers from an August 2003 conference report on the latest research in physics education Some specific topics covered include empirical investigations of student understanding the myth of gender neutrality using mapped samples to look for sex differences and students representational coherence of Newton s first and second laws Other topics ar **Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed** Paul G. Hewitt,1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt s text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics *Pepca's Struggle* Josephine Janezic,1989 **Physics** Edward C. Gruber,1963 **American Journal of Physics** ,2002 *El-Hi Textbooks in Print* ,1970 Includes related teaching materials 2007 *Physics Education Research Conference* Leon Hsu,Charles Henderson,Laura McCullough,2007-11-26 This text brings together peer reviewed papers from the 2007 Physics Education Research Conference whose theme was Cognitive Science and Physics Education Research The conference brought together researchers studying a wide variety of topics in physics education including transfer of knowledge learning in physics courses at all levels teacher education and cross disciplinary learning This up to date text will be essential reading for anyone in physics education research **2006 Physics Education Research Conference** Laura McCullough,Paula Heron,Leon Hsu,2007-03-05 Syracuse New York 26 27 July 2006 **Fourth International World Wide Web Conference : the Web Revolution, December 11-14, 1995, Boston, Massachusetts, USA** ,1995 *Directory of Distance Learning Opportunities* Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment

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web this page provides a calculator for performing unit conversion with a focus on engineering units also see our unit conversion tables general length area volume

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web vi vii units and conversion factors table of contents section references decimal multiples and submultiples description of units mechanical electric magnetic

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web covering areas such as mechanical units thermal units units of physical chemistry units of light units of electricity and magnetism and also radiation references are given

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web mechanical engineering conversion factors compiled by dr k clark midkiff gc angular velocity length area volume time mass force energy

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web units conversion tables table 1 multiples and submultiples of si units table 2 length units table 3 area units table 4 volume units table 5 mass units table 6 density

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web conversion factor between metrhc and english units calorte ocvnal y defined as the amount of heat needed to raise the temperature of 1 g of water by ioc but it varies with

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a table of conversion factors between common force units is provided below 1 note a kilopond kp is another term for kilogram force kgf see more

the association of electrical mechanical trades unit - Dec 05 2022

web scientific unit conversion new york springer verlag 2003 units and conversion factors within and between the two systems of measures are presented here for each