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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.

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

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

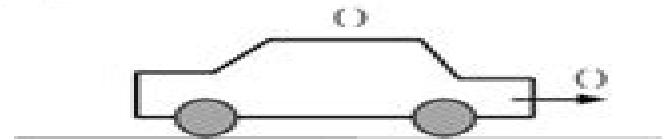
$$G(z) = \frac{Y(z)}{U(z)} = \frac{z+1}{z^2(z+1)} \quad \left(\text{with } \left| \frac{z+1}{z} \right| < 1 \right)$$

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

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

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 ---

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M Mark



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Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy

United States Air Force Academy, 2003 **Annual Catalog - United States Air Force Academy** United States Air Force Academy, 1971 **United States Air Force Academy** United States Air Force Academy, Annual Catalogue United States Air Force Academy, 1985 *Pathway to a Professorship* Donald E. Hattin, 2014-01-21 As an undergraduate student at UMass Don Hattin recorded in detail events which colored each day with the trials and triumphs of academic life He recounts the low cost of attending college fun and facts about dormitory life seemingly endless drudgery of homework unfounded fear of earning poor grades and classes of great interest versus those without redeeming characteristics or content Don describes the antics of dormitory life which leave the reader wondering how and when studying was done Don shares treasured memories of work in the College Store where many humorous events occurred and lively association with faculty and students in the Geology Department where genuine camaraderie accompanied work in the classroom laboratory and field As a T A at the University of Kansas Don discovered the joy of teaching and field work His master s thesis research on Cretaceous age rocks was prompted by a future member of the National Academy of Science leading initially to both fun and temporary futility of work on the Kansas prairie At the doctoral level Don was mentored by a world famous paleontologist who was intimidating in the office but a mellow field geologist Just once Don challenged his mentor on identification of a fossil and won During this interval a key geology faculty member departed resulting in Don s appointment as Instructor to teach two courses thus enabling Don to gain skills needed when assuming a professional role While interviewing in Ohio for a full time teaching position Don received a call from the geology chairman at Indiana University where a short visit resulted in offer of an Assistant Professorship Don s acceptance led to a career long association with that institution *2004 Physics Education Research Conference* Jeffrey Marx, Paula Heron, Scott Franklin, 2005-09-29 The 2004 Physics Education Research PER Conference brought together researchers in how we teach physics and how it is learned Student understanding of concepts the efficacy of different pedagogical techniques and the importance of student attitudes toward physics and knowledge were all discussed These Proceedings capture an important snapshot of the PER community containing an incredibly broad collection of research papers of work in progress **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 **Lucky Medicine** Lester W. Thompson, 2023-02-07 A remarkable personal glimpse of Black student life at Indiana University in the early 1960s In 1961 a skinny African American boy from Indianapolis arrived at Indiana University Bloomington determined to become a doctor For the next three years Lester Thompson kept a detailed intimate diary of his journey to graduation In Lucky Medicine Lester returns to his long ago journal and with honesty humor and a healthy dose of rueful self reflection shares stories from his college years at Indiana University Fascinating glimpses emerge of Black Greek life at the time including the building of the Kappa Alpha Psi fraternity house and the successes struggles and social lives of its members Lester s student years were driven by hard work but also bustled with fun and drama He recalls his time studying at the university library falling in and out of love many times becoming friends with fellow fraternity brother Booker T Jones a truly memorable invitation extended to meet with George Wallace and an epic no holds barred brawl with limestone cutters at the 24 Hour Grill Lucky Medicine offers a closeup unforgettable look at IU student life just before the sweeping social changes of the 1960s when students of color accounted for less than 2 percent of the Indiana University s student body **Advances in Intelligent Tutoring Systems** Roger Nkambou, Riichiro Mizoguchi, Jacqueline Bourdeau, 2010-08-27 May the Forcing Functions be with You The Stimulating World of AIED and ITS Research It is my pleasure to write the foreword for Advances in Intelligent Tutoring Systems This collection with contributions from leading researchers in the field of artificial intelligence in education AIED constitutes an overview of the many challenging research problems that must be solved in order to build a truly intelligent tutoring system ITS The book not only describes some of the approaches and techniques that have been explored to meet these challenges but also some of the systems that have actually been built and deployed in this effort As discussed in the Introduction Chapter 1 the terms AIED and ITS are often used interchangeably and there is a large overlap in the researchers devoted to exploring this common field In this foreword I will use the term AIED to refer to the search area and the term ITS to refer to the particular kind of system that AIED researchers build It has often been said that AIED is AI complete in that to produce a tutoring system as sophisticated and effective as a human tutor requires solving the entire gamut of artificial intelligence research AI problems **2006 Physics Education Research Conference** Laura McCullough, Paula Heron, Leon Hsu, 2007-03-05 Syracuse New York 26-27 July 2006 **Transforming a University** Angela Brew, Judyth Sachs, 2007-06-21 This unique collection shows what happens when one university takes on the challenge of developing the scholarship of teaching and learning with a view to enhancing students learning experiences ,
American Journal of Physics , 2002 **The Hidden Curriculum - Faculty Made Tests in Science** Sheila Tobias, 1997
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 are *Methodologies and Intelligent Systems for Technology Enhanced Learning, 10th International Conference* Pierpaolo Vittorini, Tania Di Mascio, Laura Tarantino, Marco Temperini, Rosella Gennari, Fernando De la Prieta, 2020-07-27. This book intends to bring together researchers and developers from industry, the education field, and the academic world to report on the latest scientific research, technical advances, and methodologies. The 10th International Conference in Methodologies and Intelligent Systems for Technology Enhanced Learning is hosted by the University of L'Aquila and is going to be held in L'Aquila, Italy. Initially planned on the 17th to the 19th of June 2020, it was postponed to the 7th to the 9th of October 2020 due to the COVID-19 outbreak. The 10th edition of this conference and its related workshops expand the topics of the evidence-based TEL workshops series in order to provide an open forum for discussing intelligent systems for TEL, their roots in novel learning theories, empirical methodologies for their design or evaluation, stand-alone solutions or web-based ones. This bridge has been realized also thanks to the sponsor of this edition of MIS4TEL, the Armundia Group (<https://www.armundia.com>), the support from national associations AEPIA, APPIA, CINI, and EurAI, and organizers UNIVAQ, UNIROMA1, UNIBZ, UCV, UFSC, USAL, AIR institute, UNC, and UNIBA.

Pepca's Struggle Josephine Janezic, 1989 **El-Hi Textbooks in Print**, 1970. Includes related teaching materials.

Artificial Intelligence in Education C.-K. Looi, G. McCalla, B. Bredeweg, 2005-07-14. The field of Artificial Intelligence in Education includes research and researchers from many areas of technology and social science. This study aims to open opportunities for the cross-fertilization of information and ideas from researchers in the many fields that make up this interdisciplinary research area.

Cultural Issues: Creation/Evolution and the Bible (Teacher Guide) Ken Ham, 2016-09-06. The vital resource for grading all assignments from the Cultural Issues: Creation, Evolution, and the Bible course, which includes Learning answers, information, and strategies when facing destructive influences found in the workplace or school environments. Studying fossils, the age of the earth, the beginning of life, and more in these two volumes focused on points of contention related to the Bible, faith, and science. OVERVIEW: This curriculum has been put together to provide the answers to many common objections to biblical worldviews and scriptural authority of the Bible. Practical tests are included to strengthen the student's grasp of key concepts and terms while providing critical thinking opportunities to put their knowledge to work. Students will learn to apply the Biblical worldview to subjects such as evolution, carbon dating, Noah's ark, and the Flood, and dozens more. They will discover answers to help know the depths of God's wisdom found in His Word and in His world, and why this matters to your life, your family, and your faith. FEATURES: The calendar provides lesson planning with clear objectives, and the worksheets and tests are all based on the materials provided for the course.

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