

## Cyber Exploration Laboratory

### Experiment 4.1

**Objective** To evaluate the effect of pole and zero location upon the time response of first- and second-order systems.

**Minimum Required Software Packages** MATLAB, Simulink, and the Control System Toolbox

#### Prelab

- Given the transfer function  $G(s) = \frac{a}{s+a}$ , evaluate settling time and rise time for the following values of  $a$ : 1, 2, 3, 4. Also, plot the poles.
- Given the transfer function  $G(s) = \frac{b}{s^2 + as + b}$ :
  - Evaluate percent overshoot, settling time, peak time, and rise time for the following values:  $a = 4$ ,  $b = 25$ . Also, plot the poles.
  - Calculate the values of  $a$  and  $b$  so that the imaginary part of the poles remains the same but the real part is increased two times over that of Prelab 2a, and repeat Prelab 2a.
  - Calculate the values of  $a$  and  $b$  so that the imaginary part of the poles remains the same but the real part is decreased by one half over that of Prelab 2a, and repeat Prelab 2a.
- For the system of Prelab 2a, calculate the values of  $a$  and  $b$  so that the real part of the poles remains the same but the imaginary part is increased two times over that of Prelab 2a, and repeat Prelab 2a.
  - For the system of Prelab 2a, calculate the values of  $a$  and  $b$  so that the real part of the poles remains the same but the imaginary part is increased four times over that of Prelab 2a, and repeat Prelab 2a.
- For the system of Prelab 2a, calculate the values of  $a$  and  $b$  so that the damping ratio remains the same but the natural frequency is increased two times over that of Prelab 2a, and repeat Prelab 2a.
  - For the system of Prelab 2a, calculate the values of  $a$  and  $b$  so that the damping ratio remains the same but the natural frequency is increased four times over that of Prelab 2a, and repeat Prelab 2a.
- Briefly describe the effects on the time response as the poles are changed in each of Prelabs 2, 3, and 4.

#### Lab

- Using Simulink, set up the systems of Prelab 1 and plot the step response of each of the four transfer functions on a single graph by using the Simulink LTI Viewer (See Appendix E.6 online for tutorial). Also, record the values of settling time and rise time for each step response.
- Using Simulink, set up the systems of Prelab 2. Using the Simulink LTI Viewer, plot the step response of each of the three transfer functions on a single graph. Also, record the values of percent overshoot, settling time, peak time, and rise time for each step response.
- Using Simulink, set up the systems of Prelab 2a and Prelab 3. Using the Simulink LTI Viewer, plot the step response of each of the three transfer functions on a single graph. Also, record the values of percent overshoot, settling time, peak time, and rise time for each step response.

- Using Simulink, set up the systems of Prelab 2a and Prelab 4. Using the Simulink LTI Viewer, plot the step response of each of the three transfer functions on a single graph. Also, record the values of percent overshoot, settling time, peak time, and rise

# Cyber Exploration Laboratory Experiments Solution

**Thomas Griffiths**



## **Cyber Exploration Laboratory Experiments Solution:**

**Control Systems Engineering, International Adaptation** Norman S. Nise, 2025-01-19      Control Systems Engineering Mr. Rohit Manglik, 2023-06-23 Studies design and analysis of control systems focusing on feedback stability and automation for engineering applications in various industries      **Cyber Physical Systems** Anupam Baliyan, Kuldeep Singh Kaswan, Naresh Kumar, Kamal Upreti, Ramani Kannan, 2023-01-11 Cyber Physical System CPS is an integration of computation networking and physical processes the combination of several systems of different nature whose main purpose is to control a physical process and through feedback adapt itself to new conditions in real time Cyber Physical System Concepts and Applications includes an in depth coverage of the latest models and theories that unify perspectives It expresses the interacting dynamics of the computational and physical components of a system in a dynamic environment Covers automatic application of software countermeasures against physical attacks and impact of cyber physical system on industry 4 0 Explains how formal models provide mathematical abstractions to manage the complexity of a system design Offers a rigorous and comprehensive introduction to the principles of design specification modelling and analysis of cyber physical systems Discusses the multiple domains where Cyber Physical system has a vital impact and provides knowledge about different models that provide mathematical abstractions to manage the complexity of a system design Provides the rapidly expanding field of cyber physical systems with a Long needed foundational text by an established authority This book is primarily aimed at advanced undergraduates graduates of computer science Engineers will also find this book useful

**The Oxford Handbook of Group Creativity and Innovation** Paul B. Paulus, Bernard A. Nijstad, 2019-04-30 Although creativity is often considered an individual ability or activity innovation in teams and organizations involves collaboration of people with diverse perspectives knowledge and skills The effective development of collaborative innovations and solutions to problems is critical to the success of teams and organizations but research has also demonstrated many factors which tend to limit the effectiveness of collaborative innovation of groups and teams This volume highlights recent theoretical empirical and practical developments that provide a solid basis for the practice of collaborative innovation and future research It draws from a broad range of research perspectives including cognition social influence groups teams creativity communication networks information systems organizational psychology engineering computer science and the arts This volume is an important source of information for students scholars practitioners and others interested in understanding the complexity of the group creative process and tapping the creative potential of groups and teams      Research Methods for Cyber Security Thomas W. Edgar, David O. Manz, 2017-04-19 Research Methods for Cyber Security teaches scientific methods for generating impactful knowledge validating theories and adding critical rigor to the cyber security field This book shows how to develop a research plan beginning by starting research with a question then offers an introduction to the broad range of useful research methods for cyber security research observational mathematical experimental and applied Each research method

chapter concludes with recommended outlines and suggested templates for submission to peer reviewed venues This book concludes with information on cross cutting issues within cyber security research Cyber security research contends with numerous unique issues such as an extremely fast environment evolution adversarial behavior and the merging of natural and social science phenomena Research Methods for Cyber Security addresses these concerns and much more by teaching readers not only the process of science in the context of cyber security research but providing assistance in execution of research as well Presents research methods from a cyber security science perspective Catalyzes the rigorous research necessary to propel the cyber security field forward Provides a guided method selection for the type of research being conducted presented in the context of real world usage

Intelligent Cybersecurity and Resilience for Critical Industries: Challenges and Applications Mounia Zaydi,Yassine Maleh,Gabriel Chênevert,Hayat Zaydi,Amina El Yaagoubi,2025-04-29

Intelligent Cybersecurity and Resilience for Critical Industries Challenges and Applications thoroughly explores cybersecurity principles strategies and technologies crucial for protecting digital assets and combating evolving cyber threats in critical industries This book provides indispensable guidance in fortifying cyber defenses for critical infrastructures Each chapter offers invaluable insights into proactive defense measures from AI driven threat management in healthcare systems to practical applications of AI for cyber risk management in critical infrastructures Unraveling the complexities of contemporary cyber threats this book empowers readers with the knowledge and tools needed to navigate the intricate landscape of cybersecurity effectively Through a multidisciplinary approach spanning AI machine learning and advanced technologies it addresses the urgent challenges organizations encounter in securing their digital infrastructure and safeguarding sensitive data from malicious cyber attacks Technical topics discussed in the book include AI driven strategies for advanced malware detection and prevention Hybrid deep learning techniques for precise malware classification Machine learning applications tailored to IoT security challenges Comprehensive exploration of blockchain techniques enhancing IoT security and privacy Practical integration of security analysis modules for proactive threat intelligence Designed as an essential reference this book caters to students researchers cybersecurity professionals and individuals keen on comprehending and tackling contemporary cyber defense and risk assessment challenges It serves as a valuable resource for enhancing cybersecurity awareness knowledge and practical skills in critical industries

Advances in Practical Applications of Cyber-Physical Multi-Agent Systems: The PAAMS Collection Yves Demazeau,Paul Davidsson,Javier Bajo,Zita Vale,2017-06-08

This book constitutes the refereed proceedings of the 15th International Conference on Practical Applications of Scalable Multi Agent Systems PAAMS 2017 held in Porto Portugal in June 2017 The 11 revised full papers 11 short papers and 17 Demo papers were carefully reviewed and selected from 63 submissions The papers report on the application and validation of agent based models methods and technologies in a number of key application areas including day life and real world energy and networks human and trust markets and bids models and tools negotiation and

conversation scalability and resources      **Cyber Security Intelligence and Analytics** Zheng Xu, Saed Alrabaaee, Octavio Loyola-González, Xiaolu Zhang, Niken Dwi Wahyu Cahyani, Nurul Hidayah Ab Rahman, 2022-02-26 This book presents the outcomes of the 2022 4th International Conference on Cyber Security Intelligence and Analytics CSIA 2022 an international conference dedicated to promoting novel theoretical and applied research advances in the interdisciplinary field of cyber security particularly focusing on threat intelligence analytics and countering cyber crime The conference provides a forum for presenting and discussing innovative ideas cutting edge research findings and novel techniques methods and applications on all aspects of cyber security intelligence and analytics Due to COVID 19 authors keynote speakers and PC committees will attend the conference online      **NRL Review** ,2011      **Blended Learning. Sustainable and Flexible Smart Learning** Will W. K. Ma, Simon S. K. Cheung, Chen Li, Praewpran Prayadsab, Anan Mungwattana, 2025-07-25 This book constitutes the refereed proceedings of the 18th International Conference on Blended Learning ICBL 2025 held in Bangkok Thailand during July 22 25 2025 The 24 full papers included in this book were carefully reviewed and selected from 60 submissions They were organized in topical sections as follows Keynotes AI and Robotics in Education Innovative Teaching Methods in Blended Learning Pedagogical Strategies and Student Engagement Evaluation and Feedback in Blended Learning Data Driven Learning Analytics and Context Aware Systems      **Cyber Science 6 Tm' 2007 Ed. ,      Theory and Models for Cyber Situation Awareness** Peng Liu, Sushil Jajodia, Cliff Wang, 2017-07-05 Today when a security incident happens the top three questions a cyber operation center would ask are What has happened Why did it happen What should I do Answers to the first two questions form the core of Cyber Situation Awareness SA Whether the last question can be satisfactorily addressed is largely dependent upon the cyber situation awareness capability of an enterprise The goal of this book is to present a summary of recent research advances in the development of highly desirable Cyber Situation Awareness capabilities The 8 invited full papers presented in this volume are organized around the following topics computer aided human centric cyber situation awareness computer and information science aspects of the recent advances in cyber situation awareness learning and decision making aspects of the recent advances in cyber situation awareness cognitive science aspects of the recent advances in cyber situation awareness      **International Conference on Applications and Techniques in Cyber Intelligence ATCI 2019** Jemal H. Abawajy, Kim-Kwang Raymond Choo, Rafiqul Islam, Zheng Xu, Mohammed Atiquzzaman, 2019-07-31 This book presents innovative ideas cutting edge findings and novel techniques methods and applications in a broad range of cybersecurity and cyberthreat intelligence areas As our society becomes smarter there is a corresponding need to be able to secure our cyberfuture The approaches and findings described in this book are of interest to businesses and governments seeking to secure our data and underpin infrastructures as well as to individual users      Smart Cyber Physical Systems G.R. Karpagam, B Vinoth Kumar, J. Uma Maheswari, Xiao-Zhi Gao, 2020-12-02 Smart Cyber Physical Systems Advances Challenges and Opportunities ISBN 9780367337889 Cyber Physical Systems CPS are the new

generation of collaborative computational entities with a prime focus on integration of the physical world and cyber space Through a feedback mechanism the system adapts itself to new conditions in real time The scope of this book includes research experience by experts in CPS infrastructure systems incorporating sustainability by embedding computing and communication in day to day applications CPS integrated with Blockchain Artificial Intelligence Internet of Things Big Data Cloud Computing and Communication lay a foundation for the fourth industrial revolution Industry 4 0 This book will be of immense use to practitioners in industries with a focus on autonomous and adaptive configuration and on optimization leading to increased agility elasticity and cost effectiveness The contributors of this book include renowned academics industry practitioners and researchers It offers a rigorous introduction to the theoretical foundations techniques and practical solutions through case studies Building CPS with effective communication control intelligence and security is discussed in terms of societal and research perspectives The objective of this book is to provide a forum for researchers and practitioners to exchange ideas and to achieve progress in CPS by highlighting applications advances and research challenges It is highly recommended to be used as a reference book for graduate and post graduate level programmes in universities with a focus on research in computer science related courses

**Design Thinking Research** Christoph Meinel, Larry Leifer, 2023-09-19 Extensive research conducted at the Hasso Plattner Design Thinking Research Program at Stanford University in Palo Alto California USA and at the Hasso Plattner Institute in Potsdam Germany has yielded valuable insights on why and how design thinking works The participating researchers have identified metrics developed models and conducted studies which are featured in this book and in the previous volumes of this series This volume provides readers with tools to bridge the gap between research and practice in design thinking together with a range of real world examples Several different approaches to design thinking are presented while acquired frameworks are employed to understand team dynamics in design thinking The contributing authors introduce readers to new approaches and fields of application and show how design thinking can tap the potential of digital technologies in a human centered way The book also presents new ideas on neuro design from Stanford University and the Hasso Plattner Institute in Potsdam inviting readers to consider newly developed methods and how these insights can be applied to different domains Design thinking can be learned It has a methodology that can be observed across multiple settings Accordingly readers can adopt new frameworks to modify and update their current practices The research outcomes gathered here are intended to inform and provide inspiration for all those seeking to drive innovation be they experienced design thinkers or newcomers It is the last in a series of 14 volumes published over the past 14 years reflecting the successes of the HPI Stanford Design Thinking Research Program Many thanks to the Hasso Plattner Foundation for its valued support

**Proceedings of Fifth International Conference on Computing, Communications, and Cyber-Security** Paulo J. Sequeira Gonçalves, Pradeep Kumar Singh, Sudeep Tanwar, Gregory Epiphaniou, 2024-12-04 This book features selected research papers presented at the Fifth International

Conference on Computing Communications and Cyber Security IC4S 05 Volume 2 organized in India during 8th 9th April 2024 The conference was hosted at GEHU Bhimtal Campus in India It includes innovative work from researchers leading innovators and professionals in the areas of communication and network technologies advanced computing technologies data analytics and intelligent learning the latest electrical and electronics trends and security and privacy issues The work is presented in two volumes     Tenth International Conference on Applications and Techniques in Cyber Intelligence (ICATCI 2022) Jemal H. Abawajy,Zheng Xu,Mohammed Atiquzzaman,Xiaolu Zhang,2023-03-29 This book presents innovative ideas cutting edge findings and novel techniques methods and applications in a broad range of cybersecurity and cyberthreat intelligence areas As our society becomes smarter there is a corresponding need to secure our cyberfuture The book describes approaches and findings that are of interest to business professionals and governments seeking to secure our data and underpin infrastructures as well as to individual users     Scientific and Technical Aerospace Reports ,1987 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database     *Open Innovation Labs* Giovanni Schiuma,Francesco Santarsiero,2024-12-02 This book allows readers to discover the great potential of Open Innovation Labs OILs The book offers a practical and in depth exploration of OILs guiding readers through their establishment and management Uniting academic research and actionable insights this book equips professionals and researchers with the tools to unlock their organization s innovation potential The book looks into the evolution of innovation spaces from historic inventors workshops to modern OILs and uncovers their impact on organizational transformation It explores the crucial role of OILs in fostering a culture of continuous innovation and driving collaboration with diverse stakeholders Readers will benefit from a roadmap to help create nurture and optimize OILs to suit their unique organizational context With its focus on practicality and applicability this book is a key resource for helping readers build manage and succeed with OILs From business leaders to educators and policymakers it empowers readers to shape a thriving ecosystem of innovation leading organizations toward a future of sustainable growth and positive change     *The Cyber Threat to Control Systems* United States. Congress. House. Committee on Homeland Security. Subcommittee on Emerging Threats, Cybersecurity, and Science and Technology,2009

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web you should try to answer the questions without referring to your textbook if you get stuck try asking another group for help 1 identify the oxidation state of each element in the following a na 2 so 4 b mno 4 c kclo 3 d ch 3 oh 2 identify the oxidation state of nitrogen in the following a no 3 b no 2 c no 2

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