

EE 3054: Signals, Systems, and Transforms

Lab Manual

1. The lab will meet every week.
2. Be sure to review the lab ahead of the lab session. Please ask questions of the TA's if you need some help, but also, please prepare in advance for the labs by reading the lab closely.
3. Your activity, participation, and progress during the lab session will be part of your lab grade. (Don't browse the web during lab!)
4. The lab consists of computer-based exercises. You are required to bring your laptop computer to lab with MATLAB installed. In case you do not have MATLAB installed on your laptop computer you can go to the laptop help desk to have it installed. You will need the *Signal Processing Toolbox*.
5. Labs and the data files required for some labs will be available on the web at:
<http://eeweb.poly.edu/iselesni/EE3054/lab/>
6. A lab report for each lab (except for Lab 1) will be due the following week in lab. Your lab report should include relevant code fragments, figures, answers to discussion questions in the lab, and explanations. No report is required for Lab 1.
7. There will be at least **two** paper/pencil **quizzes** related to the lab during the semester. The first lab quiz will be early in the semester and will focus on MATLAB usage only. The second lab quiz will be later in the semester and will cover concepts from the labs and lecture and MATLAB programming.

At the end of this lab manual, there is an example quiz 1. You should be able to answer all the questions on this example quiz before taking the first MATLAB quiz.
8. *The earlier in the semester you become comfortable with MATLAB the better.* The first lab introduces you to MATLAB. Several MATLAB tutorials are available at:

<http://eeweb.poly.edu/iselesni/Matlab/>

Signals And Systems Lab Manual

VM Jensen



Signals And Systems Lab Manual:

Anywhere-Anytime Signals and Systems Laboratory Fatemeh Saki, Adrian Duran, Arian Azarang, Nasser Kehtarnavaz, 2022-05-31 A typical undergraduate electrical engineering curriculum incorporates a signals and systems course. The widely used approach for the laboratory component of such courses involves the utilization of MATLAB to implement signals and systems concepts. This book presents a newly developed laboratory paradigm where MATLAB codes are made to run on smartphones which are possessed by nearly all students. As a result, this laboratory paradigm provides an anywhere, anytime hardware platform or processing board for students to learn implementation aspects of signals and systems concepts. The book covers the laboratory experiments that are normally covered in signals and systems courses and discusses how to run MATLAB codes for these experiments as apps on both Android and iOS smartphones, thus enabling a truly mobile laboratory paradigm. A zipped file of the codes discussed in the book can be acquired via the website <http://sites.fastspring.com/bookcodes/product/SignalsSystemsBookcodesThirdEdition>.
Anywhere-Anytime Signals and Systems Laboratory Nasser Kehtarnavaz, Fatemeh Saki, Adrian Duran, 2018-11-06 A typical undergraduate electrical engineering curriculum incorporates a signals and systems course. The widely used approach for the laboratory component of such courses involves the utilization of MATLAB to implement signals and systems concepts. This lecture series book presents a newly developed laboratory paradigm where MATLAB codes are made to run on smartphones which most students already possess. This smartphone-based approach enables an anywhere, anytime platform for students to conduct signals and systems experiments. This book covers the laboratory experiments that are normally covered in signals and systems courses and discusses how to run MATLAB codes for these experiments on both Android and iOS smartphones, thus enabling a truly mobile laboratory environment for students to learn the implementation aspects of signals and systems concepts. A zipped file of the codes discussed in the book can be acquired via the website.

Truck and Trailer Systems Lab Manual Mike Thomas, 2014-03-08 A practical medium and heavy duty truck systems. Featuring more than 100 in-depth lab exercises, this hands-on guide provides the practice you need to succeed as a medium and heavy duty truck service technician. The labs meet and exceed NATEF standards. Every system is thoroughly covered from electrical and lighting to brakes and transmissions. Each lab includes Objective of the lab, Safety precautions, Tools needed to complete the lab, Challenging review questions help to reinforce the topics covered and are patterned after the typical questions found on the ASE Medium Heavy Duty Truck Certification tests T3 through T8. Written by an expert with decades of experience as an automotive and diesel technician and instructor, this lab manual is the perfect companion to the comprehensive text *Truck and Trailer Systems*. **Truck and Trailer Systems Lab Manual** covers Vehicle identification numbers, Engine, transmission and drive axle ID tag numbers, Safety Tools and measuring equipment, Basic electrical, Magnetism, Batteries, Starting system, Charging system, Lighting and wiring, Computer systems, Mobile heating, ventilation and air conditioning systems, Tires, wheels and wheel end

systems Frames and suspensions Steering systems Trailers and fifth wheels Hydraulic brake systems Air brake foundation brakes Air brake air system Anti lock brake systems Drive lines Clutches Drive axles Single and twin countershaft manual transmissions Automated manual transmissions Automatic transmissions Allison automatic transmissions PMI Auxiliary power units *Mike Meyers' A+ Guide to Operating Systems Lab Manual* Michael Meyers, Lloyd Jeffries, 2004 This textbook is intended for students of AS degrees in computing information systems or information technology who are studying to become PC technicians or desktop support specialists It contains over 40 labs to challenge students to solve real world problems with learned concepts **LAB PRIMER THROUGH MATLAB®** NAVAS, K. A., JAYADEVAN, R., 2014-02-19 This systematically designed laboratory manual elucidates a number of techniques which help the students carry out various experiments in the field of digital signal processing digital image processing digital signal processor and digital communication through MATLAB in a single volume A step wise discussion of the programming procedure using MATLAB has been carried out in this book The numerous programming examples for each digital signal processing lab image processing lab signal processor lab and digital communication lab have also been included The book begins with an introductory chapter on MATLAB which will be very useful for a beginner The concepts are explained with the aid of screenshots Then it moves on to discuss the fundamental aspects in digital signal processing through MATLAB with a special emphasis given to the design of digital filters FIR and IIR Finally digital communication and image processing sections in the book help readers to understand the commonly used MATLAB functions At the end of this book some basic experiments using DSP trainer kit have also been included Audience This book is intended for the undergraduate students of electronics and communication engineering electronics and instrumentation engineering and instrumentation and control engineering for their laboratory courses in digital signal processing image processing and digital communication Key Features Includes about 115 different experiments Contains several figures to reinforce the understanding of the techniques discussed Gives systematic way of doing experiments such as Aim Theory Programs Sample inputs and outputs Viva voce questions and Examination questions *U.S. Government Research Reports* ,1962 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1961 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December *An Introductory Guide to EC Competition Law and Practice* Valentine Korah, 1994 **Products and Priorities** ,1944 *U.S. Government Research & Development Reports* ,1967 Scientific and Technical Aerospace Reports ,1995 **Technical Abstract Bulletin** , **Catalogue of the Public Documents of the ... Congress and of All Departments of the Government of the United States for the Period from ... to ...** United States. Superintendent of Documents, *Catalogue of the Public Documents of the [the Fifty-third] Congress [to the 76th Congress] and of All Departments of the Government of the United States* United States. Superintendent of Documents, 1896 Basic Microwave Techniques and Laboratory Manual M. L. Sisodia, G. S. Raghuvanshi, 1987 **Human Factors Engineering**

Bibliographic Series ,1960 **Computerworld** ,1977-10-31 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network *Proceedings of the Ninth International Joint Conference on Artificial Intelligence* International Joint Conferences on Artificial Intelligence,1985 *The Sound of Physics* James McLean,2005 **CASP**
CompTIA Advanced Security Practitioner Study Guide Michael Gregg,2014-10-27 NOTE The exam this book covered CASP CompTIA Advanced Security Practitioner Exam CAS 002 was retired by CompTIA in 2019 and is no longer offered For coverage of the current exam CASP CompTIA Advanced Security Practitioner Exam CAS 003 Third Edition please look for the latest edition of this guide CASP CompTIA Advanced Security Practitioner Study Guide Exam CAS 003 Third Edition 9781119477648 CASP CompTIA Advanced Security Practitioner Study Guide CAS 002 is the updated edition of the bestselling book covering the CASP certification exam CompTIA approved this guide covers all of the CASP exam objectives with clear concise thorough information on crucial security topics With practical examples and insights drawn from real world experience the book is a comprehensive study resource with authoritative coverage of key concepts Exam highlights end of chapter reviews and a searchable glossary help with information retention and cutting edge exam prep software offers electronic flashcards and hundreds of bonus practice questions Additional hands on lab exercises mimic the exam's focus on practical application providing extra opportunities for readers to test their skills CASP is a DoD 8570.1 recognized security certification that validates the skillset of advanced level IT security professionals The exam measures the technical knowledge and skills required to conceptualize design and engineer secure solutions across complex enterprise environments as well as the ability to think critically and apply good judgment across a broad spectrum of security disciplines This study guide helps CASP candidates thoroughly prepare for the exam providing the opportunity to Master risk management and incident response Sharpen research and analysis skills Integrate computing with communications and business Review enterprise management and technical component integration Experts predict a 45 fold increase in digital data by 2020 with one third of all information passing through the cloud Data has never been so vulnerable and the demand for certified security professionals is increasing quickly The CASP proves an IT professional's skills but getting that certification requires thorough preparation This CASP study guide provides the information and practice that eliminate surprises on exam day Also available as a set Security Practitioner Cryptography Set 9781119071549 with Applied Cryptography Protocols Algorithms and Source Code in C 2nd Edition

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