

Code No: R05220205

Set No. 1

II B.Tech II Semester Regular Examinations, Apr/May 2008
CONTROL SYSTEMS

(Common to Electrical & Electronic Engineering, Electronics & Communication Engineering, Electronics & Instrumentation Engineering, Electronics & Control Engineering, Electronics & Telematics and Electronics & Computer Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the basic control system concepts using open loop as well as closed loop systems.
(b) Why is negative feedback invariably preferred in closed loop systems? [8+8]
2. (a) Reduce the given block diagram (figure 2a) and hence obtain the transfer function $C(s)/R(s)$.

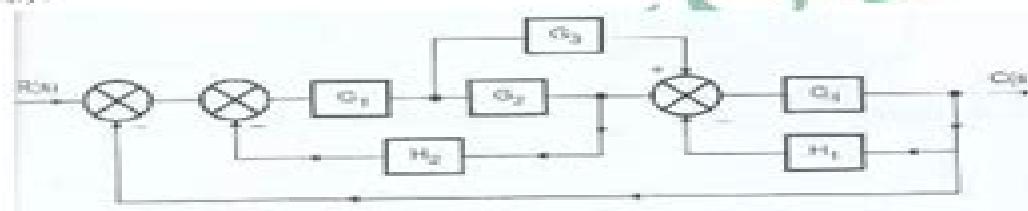


Figure 2a

3. (a) What is meant by time response? Explain about
 - i. Steady-state response
 - ii. Transient response
- (b) A unity feed-back system is characterized by an open loop T.F. $(s) = K$. Determine the gain K so that the system will have a damping ratio of 0.5. For this value of K , determine s , p and ρ for a unit step input. [6+10]
4. (a) Define the term root locus and state the rule for finding out the root locus on the real axis?
(b) Calculate the angle of asymptotes and the centroid for the system having

$$G(s) = \frac{K(s+2)}{(s+1)(s+4)(s+5)}$$

(c) For $G(s) = K$, find the intersection point of the root locus with the $j\omega$ axis? $s(s+1)(s+5)$, and the intersection point of the root locus with [4+6+6]

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B Lingard

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Aeronautical Engineering ,1990 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **NASA SP.** ,1990

Model-Based Testing for Embedded Systems

Justyna Zander,Ina Schieferdecker,Pieter J. Mosterman,2017-12-19 What the experts have to say about Model Based Testing for Embedded Systems This book is exactly what is needed at the exact right time in this fast growing area From its beginnings over 10 years ago of deriving tests from UML statecharts model based testing has matured into a topic with both breadth and depth Testing embedded systems is a natural application of MBT and this book hits the nail exactly on the head Numerous topics are presented clearly thoroughly and concisely in this cutting edge book The authors are world class leading experts in this area and teach us well used and validated techniques along with new ideas for solving hard problems It is rare that a book can take recent research advances and present them in a form ready for practical use but this book accomplishes that and more I am anxious to recommend this in my consulting and to teach a new class to my students Dr Jeff Offutt professor of software engineering George Mason University Fairfax Virginia USA This handbook is the best resource I am aware of on the automated testing of embedded systems It is thorough comprehensive and authoritative It covers all important technical and scientific aspects but also provides highly interesting insights into the state of practice of model based testing for embedded systems Dr Lionel C Briand IEEE Fellow Simula Research Laboratory Lysaker Norway and professor at the University of Oslo Norway As model based testing is entering the mainstream such a comprehensive and intelligible book is a must read for anyone looking for more information about improved testing methods for embedded systems Illustrated with numerous aspects of these techniques from many contributors it gives a clear picture of what the state of the art is today Dr Bruno Legeard CTO of Smartesting professor of Software Engineering at the University of Franche Comt Besan on France and co author of Practical Model Based Testing

A Hands-On Guide to Designing

Embedded Systems Adam Taylor,Dan Binnun,Saket Srivastava,2021-10-31 This practical resource introduces readers to the design of field programmable gate array systems FPGAs Techniques and principles that can be applied by the engineer to understand challenges before starting a project are presented The book provides a framework from which to work and approach development of embedded systems that will give readers a better understanding of the issues at hand and can develop solution which presents lower technical and programmatic risk and a faster time to market Programmatic and system considerations are introduced providing an overview of the engineering life cycle when developing an electronic solution from concept to completion Hardware design architecture is discussed to help develop an architecture to meet the requirements placed upon it and the trade offs required to achieve the budget The FPGA development lifecycle and the inputs and outputs from each stage including design test benches synthesis mapping place and route and power estimation

are also presented. Finally the importance of reliability why it needs to be considered the current standards that exist and the impact of not considering this is explained. Written by experts in the field this is the first book by engineers in the trenches that presents FPGA design on a practical level.

Embedded Systems: Design, Analysis and Verification Gunar Schirner, Marcelo Götz, Achim Rettberg, Mauro C. Zanella, Franz J. Rammig, 2013-06-13. This book constitutes the refereed proceedings of the 4th IFIP TC 10 International Embedded Systems Symposium IESS 2013 held in Paderborn Germany in June 2013. The 22 full revised papers presented together with 8 short papers were carefully reviewed and selected from 42 submissions. The papers have been organized in the following topical sections: design methodologies, non functional aspects of embedded systems, verification, performance analysis, real time systems, embedded system applications and real time aspects in distributed systems. The book also includes a special chapter dedicated to the BMBF funded ARAMIS project on

Automotive, Railway and Avionics Multicore Systems.

Embedded Systems and Software Validation Abhik Roychoudhury, 2009-04-29. Modern embedded systems require high performance, low cost and low power consumption. Such systems typically consist of a heterogeneous collection of processors, specialized memory subsystems and partially programmable or fixed function components. This heterogeneity coupled with issues such as hardware software partitioning, mapping, scheduling, etc. leads to a large number of design possibilities, making performance, debugging and validation of such systems a difficult problem. Embedded systems are used to control safety critical applications such as flight control, automotive electronics and healthcare monitoring. Clearly, developing reliable software systems for such applications is of utmost importance. This book describes a host of debugging and verification methods which can help to achieve this goal. Covers the major abstraction levels of embedded systems design, starting from software analysis and micro architectural modeling to modeling of resource sharing and communication at the system level. Integrates formal techniques of validation for hardware software with debugging and validation of embedded system design flows. Includes practical case studies to answer the question: does a design meet its requirements? If not, then which parts of the system are responsible for the violation and once they are identified, then how should the design be suitably modified?

Top 100 Embedded Systems Engineer Interview Questions Dollarbook Biz, 2025-08-16. Top 100 Embedded Systems Engineer Interview Questions is your ultimate comprehensive guide to mastering interviews for the role of an Embedded Systems Engineer. Whether you're an experienced professional aiming for your next big opportunity or a newcomer trying to break into the field, this book offers a proven framework to help you prepare with confidence and stand out in every stage of the interview process. Organized into strategically crafted chapters, this guide covers all the critical competencies and skills required for success in an Embedded Systems Engineer position. Inside, you'll find General Embedded Systems Concepts, Microcontrollers and Microprocessors, Real Time Operating Systems, RTOS, Memory Management, Communication Protocols, Power Management, Sensors and Actuators, Debugging and Testing, Embedded Software Development, Networking and Connectivity, Security in Embedded

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Co-verification of Hardware and Software for

ARM SoC Design Jason Andrews, 2004-09-04 Hardware software co verification is how to make sure that embedded system software works correctly with the hardware and that the hardware has been properly designed to run the software successfully before large sums are spent on prototypes or manufacturing This is the first book to apply this verification technique to the rapidly growing field of embedded systems on a chip SoC As traditional embedded system design evolves into single chip design embedded engineers must be armed with the necessary information to make educated decisions about which tools and methodology to deploy SoC verification requires a mix of expertise from the disciplines of microprocessor and computer architecture logic design and simulation and C and Assembly language embedded software Until now the relevant information on how it all fits together has not been available Andrews a recognized expert provides in depth information about how co verification really works how to be successful using it and pitfalls to avoid He illustrates these concepts using concrete examples with the ARM core a technology that has the dominant market share in embedded system product design The companion CD ROM contains all source code used in the design examples a searchable e book version and useful design tools The only book on verification for systems on a chip SoC on the market Will save engineers and their companies time and money by showing them how to speed up the testing process while still avoiding costly mistakes Design examples use the ARM core the dominant technology in SoC and all the source code is included on the accompanying CD Rom so engineers can easily use it in their own designs

Specification and Design of Embedded Systems Gajski, 2007-09

Embedded System Design Peter Marwedel, 2021-01-25 A unique feature of this open access textbook is to provide a comprehensive introduction to the fundamental knowledge in embedded systems with applications in cyber physical systems and the Internet of things It starts with an introduction to the field and a survey of specification models and languages for embedded and cyber physical systems It provides a brief overview of hardware devices used for such systems and presents the essentials of system software for embedded systems including real time operating systems The author also discusses

evaluation and validation techniques for embedded systems and provides an overview of techniques for mapping applications to execution platforms including multi core platforms Embedded systems have to operate under tight constraints and hence the book also contains a selected set of optimization techniques including software optimization techniques The book closes with a brief survey on testing This fourth edition has been updated and revised to reflect new trends and technologies such as the importance of cyber physical systems CPS and the Internet of things IoT the evolution of single core processors to multi core processors and the increased importance of energy efficiency and thermal issues **Embedded Systems Design**
Arnold Berger,2001-12-15 Hardware Software Partitioning Cross Platform Development Firmware Debugging Performance Analysis Testing Integration Get into embedded systems programming with a clear understanding of the development cycle and the specialized aspects of *Testing Complex and Embedded Systems* Kim H. Pries,Jon M. Quigley,2018

Engineering Embedded Systems Peter Hintenau,2014-11-11 This is a textbook for graduate and final year undergraduate computer science and electrical engineering students interested in the hardware and software aspects of embedded and cyberphysical systems design It is comprehensive and self contained covering everything from the basics to case study implementation Emphasis is placed on the physical nature of the problem domain and of the devices used The reader is assumed to be familiar on a theoretical level with mathematical tools like ordinary differential equation and Fourier transforms In this book these tools will be put to practical use Engineering Embedded Systems begins by addressing basic material on signals and systems before introducing to electronics Treatment of digital electronics accentuating synchronous circuits and including high speed effects proceeds to micro controllers digital signal processors and programmable logic Peripheral units and decentralized networks are given due weight The properties of analog circuits and devices like filters and data converters are covered to the extent desirable by a systems architect The handling of individual elements concludes with power supplies including regulators and converters The final section of the text is composed of four case studies electric drive control permanent magnet synchronous motors in particular lock in amplification with measurement circuits for weight and torque and moisture design of a simple continuous wave radar that can be operated to measure speed and distance and design of a Fourier transform infrared spectrometer for process applications End of chapter exercises will assist the student to assimilate the tutorial material and these are supplemented by a downloadable solutions manual for instructors The pen and paper problems are further augmented with laboratory activities In addition to its student market Engineering Embedded Systems will assist industrial practitioners working in systems architecture and the design of electronic measurement systems to keep up to date with developments in embedded systems through self study *Embedded Systems*
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