

EXPERIMENT 2

Simulation of Logic Circuits

The objectives of this Experiment:

This experiment will introduce you to using computer software for simulating digital logic circuits. The objectives of this experiment include:

- Learning how to simulate digital logic circuits using *Multisim* software.
- Continue to develop professional lab skills and written communication skills.

This experiment is designed for you to work on in a self-paced mode during the week. GTA help will be available at certain times, as posted on the class website.

I. Introduction

Computers are often used in engineering to perform simulation of real-world systems. Some examples of specific software and applications are listed in Table 1.

Table 1. Some simulation software used in engineering.

Simulation Software	Application
Multisim	Analog and digital circuits
Simulink	Feedback control systems
PSPICE	Analog and digital circuits (transistor level)
SUPREM	Integrated circuit processing
ANSYS	Mechanical and structural assemblies
EMAPS	Electrical machines
Modelsim	Digital systems (using VHDL & Verilog)

The advantage of simulation is that it is often less expensive and less time-consuming than building and testing the real system, and it is usually much easier to make a large number of changes rapidly, as is often desired for preliminary investigation of a design concept.

The limitation of simulation is that there are always some real-world effects that cannot be accurately modeled in software, so the designer must ultimately build a real prototype for final testing.

In this experiment you will be introduced to *Multisim*, from National Instruments, which is a simple software package used for simulating analog, digital logic, and mixed analog-digital circuits. It allows you to construct a model of a circuit with parts selected from a library (circuit components, logic chips and other parts such as hex displays, LEDs, clocks and switches). Once the parts are interconnected, you can apply a variety of inputs to the circuit and monitor the outputs in several forms, including probes, hex displays and timing diagrams. The latter show the relationship between various inputs and outputs as a function of time.

An example timing diagram is shown in Figure 1. This particular diagram is taken from the data sheet for the 74193 up/down binary counter manufactured by Texas Instruments. The complete data sheet is available at <http://www-s.ti.com/sc/psheets/sdls074/sdls074.pdf>

Simulation Lab Manual Thermal Engineering

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Simulation Lab Manual Thermal Engineering:

Recent Advances in Mechanical Engineering, Volume 1 Gujjala Raghavendra, B. B. V. L. Deepak, Manoj Gupta, 2024-04-01 This book presents select proceedings of International Conference on Mechanical Engineering Researches and Evolutionary Challenges ICMech REC 23 It covers the latest research in the areas of mechanical engineering and materials applications Various topics covered in this book are materials composite nano advanced design methodologies Industry 4.0 smart manufacturing thermodynamics mechatronics robotics soft computing and automation The contents of this book are useful to the researchers and professionals working in the different areas of mechanical engineering

Advances in Thermal Engineering Gautam Choubey, Sumit Tripathi, V. K. Singh, P. M. V. Subbarao, 2024-08-27 The 2nd International Conference on Futuristic Advancements in Materials Manufacturing and Thermal Sciences ICFAMMT 2024 was jointly organized by the Department of Mechanical and Aerospace Engineering Institute of Infrastructure Technology Research and Management IITRAM Ahmedabad India and the Space Society of Mechanical Engineers SSME Space Applications Centre ISRO Ahmedabad This conference aims to provide splendid opportunities for academicians researchers industrial persons and young scientists to address new challenges and discuss futuristic advancements in materials manufacturing and thermal sciences This book includes select peer reviewed proceedings of the 2nd International Conference on Futuristic Advancements in Materials Manufacturing and Thermal Sciences ICFAMMT 2024 The contents of this book provide an overview of the latest research in the area of thermal and fluid sciences such as computational and numerical methods in fluid flow and heat transfer advanced energy systems battery thermal management system technologies for space and aerospace applications supersonic combustion two phase multiphase flows measurement and instrumentation for fluid flow and transport properties micro nano scale fluid flow and heat transfer The book is useful for researchers and professionals working in the field of thermal and fluid sciences Scientific and Technical Aerospace Reports ,1995

Federal Software Exchange Catalog ,1986 **Eco-Architecture V** C.A. Brebbia, R. Pulselli, 2014-09-24 This book contains the proceedings of the fifth International Conference on Harmonisation between Architecture and Nature Eco Architecture 2014 Eco Architecture implies a new approach to the design process intended to harmonise its products with nature This involves ideas such as minimum use of energy at each stage of the building process taking into account the amount required during the extraction and transportation of materials their fabrication assembly building erection maintenance and eventual future recycling Another important issue is the adaptation of the architectural design to the natural environment learning from nature and long time honoured samples of traditional constructions The papers in this book deal with topics such as building technologies design by passive systems design with nature cultural sensitivity life cycle assessment resources and rehabilitation and many others Also included are case studies from many different places around the world Eco Architecture by definition is a highly multi disciplinary subject Eco Architecture V Harmonisation

between Architecture and Nature will therefore be of interest to in addition to architects many other professionals including engineers planners physical scientists sociologists and economists Topics covered include Design with nature Energy efficiency Building technologies Ecological impacts of materials Bioclimatic design Water quality Green facades Ecological and cultural sensitivity Education and training Case studies Design by passive systems Adapted reuse Life cycle assessment and durability Transformative design Sustainability indices in architecture

Absorption Heating Technologies Wei Wu,Xianting Li,Tian You,2019-09-23 This book offers a comprehensive introduction to novel absorption heating technologies for improving the energy efficiency of heating systems The proposed low temperature heating systems based on an air source absorption heat pump ASHP significantly increase heating efficiency and reduce pollution emissions As the performance of ASHPs deteriorates at lower ambient driving temperatures a series of advanced cycles is used to extend their applicability with the compression assisted ASHP being the most outstanding example The book discusses the generator absorber heat exchange ASHP as a promising solution to make the best of high driving temperatures an aspect that can be improved further via compression Further it addresses the ground source absorption heat pump GSAHP which eliminates the soil thermal imbalance of the conventional ground source electrical heat pump GSEHP and also reduces the number of boreholes Various hybrid GSAHP systems are proposed to further enhance applicability efficiency and economy these include a combined GSAHP and GSEHP system as well as ASHP and GSAHP systems that incorporate design optimizations In closing the book explores the merits of novel working fluids and highlights recent advances concerning waste heat and renewable energy utilization

Thermal Food Processing Da-Wen Sun,2012-05-16 Thermal processing remains one of the most important processes in the food industry Now in its second edition Thermal Food Processing New Technologies and Quality Issues continues to explore the latest developments in the field Assembling the work of a worldwide panel of experts this volume highlights topics vital to the food industry today and pinpoints the trends in future research and development Topics discussed include Thermal properties of foods including heat capacity conductivity diffusivity and density Heat and mass transfer and related engineering principles mechanisms and models The development and application of deterministic heat transfer models for predicting internal product temperatures Modeling thermal processing using artificial neural networks ANN and computational fluid dynamics CFD Thermal processing of meat poultry fish and dairy products canned foods ready meals and vegetables The effect of ultrahigh temperature UHT treatment processing on milk including the impact on nutrient composition safety and organoleptic aspects Ohmic radio frequency RF dielectric infrared and pressure assisted heating pH assisted thermal processing In addition to updating all content this second edition includes five new chapters Thermal Effects in Food Microbiology Modeling Thermal Microbial Inactivation Kinetics Thermal Processing of Food and Fruit Juices Aseptic Processing and Packaging and Microwave Heating The final chapter of the book examines systems used in the evaluation of thermal processes and the development of time temperature integrators TTIs to ensure the safety of thermally processed

food An up to date survey of essential techniques and the science behind them this volume is a critical reference for food industry professionals **Monthly Catalog of United States Government Publications** ,1979 **Using Technology Tools to Innovate Assessment, Reporting, and Teaching Practices in Engineering Education** Alam, Firoz,2014-01-31 Many can now conclude that utilizing educational technologies can be considered the primary tools to inspire students to learn Combining these technologies with the best teaching and learning practices can engage in creativity and imagination in the engineering field Using Technology Tools to Innovate Assessment Reporting and Teaching Practices in Engineering Education highlights the lack of understanding of teaching and learning with technology in higher education engineering programs while emphasizing the important use of this technology This book aims to be essential for professors graduate and undergraduate students in the engineering programs interested learning the appropriate use of technological tools

Monthly Catalogue, United States Public Documents ,1993-05 ASHRAE Handbook ,1999 **Nuclear Science Abstracts** ,1973 *A Guide to Undergraduate Science Course and Laboratory Improvements* National Science Foundation (U.S.). Directorate for Science Education,1979 **Energy** ,1983 **Energy: a Continuing Bibliography with Indexes** ,1983 **Government Reports Annual Index** ,1975 Technology for Large Space Systems ,1987 *Critical Infrastructure Protection* L. Kruszka,M. Klósak,P. Muzolf,2019-05-10 Recent decades have seen an increase in the number of terrorist attacks necessitating the development of more efficient global security policies One of the most important elements of this enhanced security is the protection of critical infrastructure This book presents edited contributions from the NATO Advanced Training Course ATC on Critical Infrastructure Protection Best Practices and Innovative Methods of Protection held in Agadir Morocco from 6 to 12 May 2018 The main objective of the course was to bring together specialists working in the area of protecting critical infrastructure in NATO Member and Partner countries to share their knowledge and expertise One lecture block was dedicated to important legal aspects as these differ from country to country The other main topic areas included the structural design and protection of critical infrastructure new materials and material analysis and material and construction testing at elevated impact velocities via experiment and numerical simulation New designs for critical infrastructure elements were also demonstrated The course provided an ideal forum for speakers and participants from government academia and military bodies to exchange information and best practice while at the same time creating links to foster further collaboration and the exchange of ideas about the protection of critical infrastructure and the book will be of interest to all those whose work involves protecting critical infrastructure from the threat of terrorist attack

Cognitive Computing for Smart Automotive Transportation G. R. Kanagachidambaresan,Archana Naganathan,Niresh Jayarajan,Sheldon S. Williamson,2025-06-19 This reference book explores the integration of cognitive computing technologies in the automotive industry to enhance smart transportation systems It focuses on how AI machine learning and data analytics can improve vehicle automation safety and efficiency Automation can support driverless vehicle transportation

and bridge the gap between manual control and fully automated navigation systems The text introduces a discussion on numerous applications of cognitive computing in smart transportation motion planning situation awareness dynamic driving adaptive behavior human intent measurement and predictive analysis Key Features Discusses basic concepts and architecture of cognitive computing for vehicular systems Presents technologies to measure human intent for vehicle safety including emergency management systems EMS Covers the perception and localization processes in autonomous driving through LiDAR GPS and Stereo vision data with critical decision making and simulation results Elucidates the application of motion planning for smart transportation Covers visual perception technologies for advanced driver assistance systems ADAS through deep learning The text is primarily written for graduate students academic researchers and professionals in the fields of computer science electrical engineering automotive engineering and civil engineering **A Directory of**
Computer Software ,1984

Unveiling the Magic of Words: A Review of "**Simulation Lab Manual Thermal Engineering**"

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