Cork Institute of Technology

Bachelor of Engineering in Building Services Engineering - Stage 2

(EBSEN_7_Y2)

Summer 2008

Electrotechnology

(Time: 3 hours)

Answer THREE question from Section A and TWO question from Section B Use separate answer book for each Section All question carry equal marks Examiner: Mr. S. Boljevic Dr. M. Smyth Mr. D. Leonard

Section A

- Q1. (a) A coil of insulated wire of resistance 8 Ω and inductance 0.03 H is connected to an a.c. supply at 240 V 50Hz. Draw the circuit and calculate:
 - (i) the current through the coil
 - (iii) power factor
 - (iii) the power consumed by the coil

(6 marks)

(b) Calculate the value of capacitance which when connected in series with the above coil, causes no change in the values of the current and power taken from the supply.

(6 marks):

- (c) A coil of resistance 100 Ω and inductance 100 µH is connected in series with a 100 pF capacitor. The circuit is connected to a 10 V variable frequency supply. Draw the circuit and calculate:
 - (i) the resonant frequency
 - (ii) current at resonance
 - (iii) voltage across L and C at resonance
 - (iv) Q factor of the circuit

(8 marks)

Electrotechnology 2014 November Exam Paper

Clifford Lane

Electrotechnology 2014 November Exam Paper:

System Level ESD Co-Design Charvaka Duvvury, Harald Gossner, 2017-05-05 An effective and cost efficient protection of electronic system against ESD stress pulses specified by IEC 61000 4 2 is paramount for any system design This pioneering book presents the collective knowledge of system designers and system testing experts and state of the art techniques for achieving efficient system level ESD protection with minimum impact on the system performance All categories of system failures ranging from hard to soft types are considered to review simulation and tool applications that can be used The principal focus of System Level ESD Co Design is defining and establishing the importance of co design efforts from both IC supplier and system builder perspectives ESD designers often face challenges in meeting customers system level ESD requirements and therefore a clear understanding of the techniques presented here will facilitate effective simulation approaches leading to better solutions without compromising system performance With contributions from Robert Ashton Jeffrey Dunnihoo Micheal Hopkins Pratik Maheshwari David Pomerenke Wolfgang Reinprecht and Matti Usumaki readers benefit from hands on experience and in depth knowledge in topics ranging from ESD design and the physics of system ESD phenomena to tools and techniques to address soft failures and strategies to design ESD robust systems that include mobile and automotive applications The first dedicated resource to system level ESD co design this is an essential reference for industry ESD designers system builders IC suppliers and customers and also Original Equipment Manufacturers OEMs Key features Clarifies the concept of system level ESD protection Introduces a co design approach for ESD robust systems Details soft and hard ESD fail mechanisms Detailed protection strategies for both mobile and automotive applications Explains simulation tools and methodology for system level ESD co design and overviews available test methods and standards Highlights economic benefits of system ESD co design Bulletin of Electrical Engineering and Informatics Tole Sutikno, Bulletin of Electrical Engineering and Informatics is a peer reviewed journal that publishes material on all aspects of electrical electronics instrumentation control telecommunication computer engineering information technology and informatics from the global world 2024-25 SSC JE CBT I & II Electrical Engineering Solved Papers YCT Expert Team, 2024 25 SSC JE CBT I II Electrical Engineering Solved Papers 800 1495 E This book contains 57 online sets previous solved papers with analytical explanation 2024-25 SSC JE Electrical Engineering Solved Papers YCT Expert Team, 2024 25 SSC JE Electrical Engineering Solved Papers **Selected Papers from the 2018 41st International** Conference on Telecommunications and Signal Processing (TSP) Norbert Herencsar, Francesco Benedetto, Jorge Crichigno, 2019-07-01 This Special Issue contains a series of excellent research works on telecommunications and signal processing selected from the 2018 41st International Conference on Telecommunications and Signal Processing TSP which was held on July 4 6 2018 in Athens Greece The conference was organized in cooperation with the IEEE Region 8 Europe Middle East and Africa IEEE Greece Section IEEE Czechoslovakia Section and IEEE Czechoslovakia Section SP CAS COM

Joint Chapter by seventeen universities from the Czech Republic Hungary Turkey Taiwan Japan Slovak Republic Spain Bulgaria France Slovenia Croatia and Poland for academics researchers and developers and serves as a premier international forum for the annual exchange and promotion of the latest advances in telecommunication technology and signal processing The aim of the conference is to bring together both novice and experienced scientists developers and specialists to meet new colleagues collect new ideas and establish new cooperation between research groups from universities research centers and private sectors worldwide This collection of 10 papers is highly recommended for researchers and believed to be interesting inspiring and motivating for readers in their further research Bulletin of Electrical Engineering and Informatics, Bulletin of Electrical Engineering and Informatics is a peer reviewed journal that publishes material on all aspects of electrical electronics instrumentation control telecommunication computer engineering information technology and informatics from the global world Electro-technology Stanley A. Dennis, Leon Irving Thomas, 1961 Proceedings of the 2nd International Conference on Electronic Engineering and Renewable Energy Systems Bekkay Hajji, Adel Mellit, Giuseppe Marco Tina, Abdelhamid Rabhi, Jerome Launay, Salah Eddine Naimi, 2020-08-14 This book includes papers presented at the Second International Conference on Electronic Engineering and Renewable Energy ICEERE 2020 which focus on the application of artificial intelligence techniques emerging technology and the Internet of things in electrical and renewable energy systems including hybrid systems micro grids networking smart health applications smart grid mechatronics and electric vehicles It particularly focuses on new renewable energy technologies for agricultural and rural areas to promote the development of the Euro Mediterranean region Given its scope the book is of interest to graduate students researchers and practicing engineers working in the fields of electronic engineering and renewable energy **Assessment of Solid-State Lighting, Phase Two** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Assessment of Solid-State Lighting, Phase 2,2017-06-11 The standard incandescent light bulb which still works mainly as Thomas Edison invented it converts more than 90% of the consumed electricity into heat Given the availability of newer lighting technologies that convert a greater percentage of electricity into useful light there is potential to decrease the amount of energy used for lighting in both commercial and residential applications Although technologies such as compact fluorescent lamps CFLs have emerged in the past few decades and will help achieve the goal of increased energy efficiency solid state lighting SSL stands to play a large role in dramatically decreasing U S energy consumption for lighting Since the publication of the 2013 National Research Council report Assessment of Advanced Solid State Lighting the penetration of SSL has increased dramatically with a resulting savings in energy and costs that were foreshadowed by that study What was not anticipated then is the dramatic dislocation and restructuring of the SSL marketplace as cost reductions for light emitting diode LED components reduced profitability for LED manufacturers At the same time there has been the emergence of new applications for SSL which have the potential

to create new markets and commercial opportunities for the SSL industry Assessment of Solid State Lighting Phase Two discusses these aspects of change highlighting the progress of commercialization and acceptance of SSL and reviewing the technical advances and challenges in achieving higher efficacy for LEDs and organic light emitting diodes This report will also discuss the recent trends in SSL manufacturing and opportunities for new applications and describe the role played by the Department of Energy DOE Lighting Program in the development of SSL **Engineering Dielectric Liquid Applications** Issouf Fofana, Ph.D. ing. Chairholder, 2018-12-11 This book is a printed edition of the Special Issue Engineering Dielectric The proceedings of the 16th Annual Conference of China Liquid Applications that was published in Energies Electrotechnical Society Qingxin Yang, Xidong Liang, Yaohua Li, Jinghan He, 2022-04-17 This book gathers outstanding papers presented at the 16th Annual Conference of China Electrotechnical Society organized by China Electrotechnical Society CES held in Beijing China from September 24 to 26 2021 It covers topics such as electrical technology power systems electromagnetic emission technology and electrical equipment It introduces the innovative solutions that combine ideas from multiple disciplines The book is very much helpful and useful for the researchers engineers practitioners research students and interested readers Proceedings of the 5th International Conference on Electrical Engineering and Control Applications-Volume 1 Salim Ziani, Mohammed Chadli, Sofiane Bououden, Ivan Zelinka, 2024-09-30 This book gathers papers presented during the 5th International Conference on Electrical Engineering and Control Applications ICEECA 2022 held on November 15 17 2022 Khenchela Algeria It covers new control system models troubleshooting tips and complex system requirements such as increased speed precision and remote capabilities Additionally the book discusses not only the engineering aspects of signal processing and various practical issues in the broad field of information transmission but also novel technologies for communication networks and modern antenna design The later part of the book covers important related topics such as fault diagnosis and fault tolerant control strategies for nonlinear systems and alternative energy sources This book is intended for researchers engineers and advanced postgraduate students in the fields of control and electrical engineering computer science signal processing as well as mechanical and chemical engineering and Reactor Life Management Luiz Cheim, Adish Kumar Gupta, Tara-Lee MacArthur, Simon Ryder, 2024-12-28 This Green Book provides a comprehensive guide to transformer and reactor life management from procurement to disposal Transformers and reactors are among the most expensive components in the power system and contribute to a large proportion of its losses Transformers also have long lives more 40 years in many cases Making the wrong decisions on their life management can have serious and long lasting consequences. The book is a reference for anyone involved in transformer and reactor life management This includes not only operators but also maintenance repair testing and disposal contractors Each of the main steps is described in its own chapter with special emphasis on diagnosing and resolving transformer and reactor problems Each chapter has been written by experts in the field and then reviewed in detail by the editorial panel In

addition the editorial panel has tried to ensure a clear and consistent use of terminology The book provides those involved in transformer and reactor life management with comprehensive guidance on industry best practices and how to avoid wrong decisions Readers who would like to comment on any of the published books or identify errors to the editorial team please contact cigregreenbooks springer com Proceedings of the 21st International Symposium on High Voltage Engineering Bálint Németh, 2019-11-27 High voltage engineering is extremely important for the reliable design safe manufacture and operation of electric devices equipment and electric power systems The 21st International Symposium on High Voltage Engineering organized by the 90 years old Budapest School of High Voltage Engineering provides an excellent forum to present results advances and discussions among engineers researchers and scientists and share ideas knowledge and expertise on high voltage engineering The proceedings of the conference presents the state of the art technology of the field The content is simultaneously aiming to help practicing engineers to be able to implement based on the papers and researchers to link and further develop ideas Modeling Power Electronics and Interfacing Energy Conversion Systems M. Godoy Simoes, Felix A. Farret, 2016-09-16 Discusses the application of mathematical and engineering tools for modeling simulation and control oriented for energy systems power electronics and renewable energy This book builds on the background knowledge of electrical circuits control of dc dc converters and inverters energy conversion and power electronics The book shows readers how to apply computational methods for multi domain simulation of energy systems and power electronics engineering problems Each chapter has a brief introduction on the theoretical background a description of the problems to be solved and objectives to be achieved Block diagrams electrical circuits mathematical analysis or computer code are covered Each chapter concludes with discussions on what should be learned suggestions for further studies and even some experimental work Discusses the mathematical formulation of system equations for energy systems and power electronics aiming state space and circuit oriented simulations Studies the interactions between MATLAB and Simulink models and functions with real world implementation using microprocessors and microcontrollers Presents numerical integration techniques transfer function modeling harmonic analysis and power quality performance assessment Examines existing software such as MATLAB Simulink Power Systems Toolbox and PSIM to simulate power electronic circuits including the use of renewable energy sources such as wind and solar sources The simulation files are available for readers who register with the Google Group power electronics interfacing energy conversion systems googlegroups com After your registration you will receive information in how to access the simulation files the Google Group can also be used to communicate with other registered readers of this book Pulse-Width Modulated DC-DC Power Converters Marian K. Kazimierczuk, 2015-08-13 PWM DC DC power converter technology underpins many energy conversion systems including renewable energy circuits active power factor correctors battery chargers portable devices and LED drivers Following the success of Pulse Width Modulated DC DC Power Converters this second edition has been thoroughly revised and expanded to

cover the latest challenges and advances in the field Key features of 2nd edition Four new chapters detailing the latest advances in power conversion focus on small signal model and dynamic characteristics of the buck converter in continuous conduction mode voltage mode control of buck converter small signal model and characteristics of the boost converter in the discontinuous conduction mode and electromagnetic compatibility EMC Provides readers with a solid understanding of the principles of operation synthesis analysis and design of PWM power converters and semiconductor power devices including wide band gap power devices SiC and GaN Fully revised Solutions for all end of chapter problems available to instructors via the book companion website Step by step derivation of closed form design equations with illustrations Fully revised figures based on real data With improved end of chapter summaries of key concepts review questions problems and answers biographies and case studies this is an essential textbook for graduate and senior undergraduate students in electrical engineering Its superior readability and clarity of explanations also makes it a key reference for practicing engineers and research scientists OECD Digital Economy Outlook 2017 OECD,2017-10-11 The OECD Digital Economy Outlook examines and documents the evolutions and emerging opportunities and challenges in the digital economy It highlights how OECD countries and partner economies are taking advantage of ICTs and the Internet to meet their public policy objectives

Energy Informatics Bo Nørregaard Jørgensen, Luiz Carlos Pereira da Silva, Zheng Ma, 2023-12-01 This two volume set LNCS 14467 14468 constitutes the proceedings of the First Energy Informatics Academy Conference EI A 2023 held in Campinas Brazil in December 2023 The 39 full papers together with 8 short papers included in these volumes were carefully reviewed and selected from 53 submissions. The conference focuses on the application of digital technology and information management to facilitate the global transition towards sustainable and resilient energy systems *Trade-off Analytics* Gregory S. Parnell, 2016-10-25 Presents information to create a trade off analysis framework for use in government and commercial acquisition environments This book presents a decision management process based on decision theory and cost analysis best practices aligned with the ISO IEC 15288 the Systems Engineering Handbook and the Systems Engineering Body of Knowledge It provides a sound trade off analysis framework to generate the tradespace and evaluate value and risk to support system decision making throughout the life cycle Trade off analysis and risk analysis techniques are examined The authors present an integrated value trade off and risk analysis framework based on decision theory These trade off analysis concepts are illustrated in the different life cycle stages using multiple examples from defense and commercial domains Provides techniques to identify and structure stakeholder objectives and creative doable alternatives Presents the advantages and disadvantages of tradespace creation and exploration techniques for trade off analysis of concepts architectures design operations and retirement Covers the sources of uncertainty in the system life cycle and examines how to identify assess and model uncertainty using probability Illustrates how to perform a trade off analysis using the INCOSE Decision Management Process using both deterministic and probabilistic techniques Trade off Analytics Creating and Exploring the System

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