

ANALOG & DIGITAL ELECTRONICS

CS – 301

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternative –

ANALOG ELECTRONICS

- i) The gain required for sustained oscillation in Wien-bridge oscillator is
 - a) 29
 - b) 1.5
 - c) 3
 - d) 1
- ii) Schmitt trigger is also known as
 - a) squaring circuit
 - b) blocking oscillator
 - c) sweep circuit
 - d) astable multivibrator
- iii) A differential amplifier has the differential gain of 100. If its CMRR = 240, then the common mode gain is
 - a) 0.24
 - b) 0.417
 - c) 24000
 - d) 1
- iv) The maximum theoretical efficiency of class A amplifier can be
 - a) 50%
 - b) 78%
 - c) 25%
 - d) 100%
- v) For a wide range of oscillations in the audio range, the preferred oscillator is
 - a) Hartley
 - b) Phase shift
 - c) Wien-bridge
 - d) Hartley and Colpitt
- vi) To improve the efficiency of the amplifier we have to
 - a) reduce the power dissipation rating
 - b) reduce supply voltage
 - c) reduce the load power
 - d) reduce unwanted power loss
- vii) A class B push-pull power amplifier has an a.c. output of 10 watts. The d.c. power from the power supply under ideal condition is
 - a) 10 watts
 - b) 12.75 watts
 - c) 15 watts
 - d) 20 watts
- viii) To avoid false triggering of the NE 555 timer, the RESET pin (Pin 4) is generally connected to

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James Montgomery Beggs



Nindustrial Electronics Question Paper Memorandum:

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Applications of Power Electronics Frede Blaabjerg, Tomislav Dragicevic, Pooya Davari, 2019-06-24 Power electronics technology is still an emerging technology and it has found its way into many applications from renewable energy generation i e wind power and solar power to electrical vehicles EVs biomedical devices and small appliances such as laptop chargers In the near future electrical energy will be provided and handled by power electronics and consumed through power electronics this not only will intensify the role of power electronics technology in power conversion processes but also implies that power systems are undergoing a paradigm shift from centralized distribution to distributed generation Today more than 1000 GW of renewable energy generation sources photovoltaic PV and wind have been installed all of which are handled by power electronics technology The main aim of this book is to highlight and address recent breakthroughs in the range of emerging applications in power electronics and in harmonic and electromagnetic interference EMI issues at device and system levels as discussed in robust and reliable power electronics technologies including fault prognosis and diagnosis technique stability of grid connected converters and smart control of power electronics in devices microgrids and at system levels

Resources in Education, 1998 Proceedings Institution of Electronic and Radio Engineers, 1963

An Introduction to Wavelet Modulated Inverters S. A. Saleh, M. Azizur Rahman, 2011-03-16 AN INTRODUCTION TO Wavelet Modulated Inverters An authoritative guide to designing and constructing wavelet functions that accurately model complex circuits for better performance This is the first book to provide details analysis development implementation and performances of wavelet modulated WM inverters a novel technique that keeps power systems stable and minimizes energy waste while enhancing power quality and efficiency Written by experts in the power electronics field it provides step by step procedures to implement the WM technique for single and three phase inverters Also presented are key sample performance results for the new WM power inverters for different load types which demonstrate the inverters simplicity efficacy and robustness Beginning with the fundamentals of inverter technology the book then describes wavelet basis functions and sampling theory with particular reference to the switching model of

inverters From there comprehensive chapters explain The connection between the non uniform sampling theorem and wavelet functions to develop an ideal sampling reconstruction process to operate an inverter The development of scale based linearly combined basis functions in order to successfully operate single phase WM inverters Performances of single phase WM inverters for static dynamic and non linear loads The simulation and experimental performances of three phase wavelet modulated voltage source inverters for different loads at various operating conditions The book establishes for the first time a direct utilization of different concepts of the sampling theorem and signal processing in accurate modeling of the operation of single and three phase inverters Figures are provided to help develop the basis of utilizing concepts of the sampling signal processing and wavelet theories in developing a new tool and technology for inverters Also included are easy to follow mathematical derivations as well as procedures and flowcharts to facilitate the implementation of the WM inverters These items make this unique reference of great interest to academic researchers industry based researchers and practicing engineers It is ideally suited for senior undergraduate and graduate level students in electrical engineering computer engineering applied signal processing and power electronics courses

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Conference on Power Electronics and Drive Systems ,2005 **Memorial Services in the Congress of the United States and Tributes in Eulogy of Harry S. Truman, Late President of the United States** United States. 93d Congress, 1st session, 1973,1973 **Memorial Services in the Congress of the United States and Tributes in Eulogy of Harry S. Truman, Late a President of the United States** United States. Congress,1973 *Daily Graphic* J.K. Addo-Twum,1978-09 *The Wilbur and Orville Wright Memorial Lecture* James Montgomery Beggs,1984 **Proceedings of the Multi-Conference 2011** Himanshu B. Soni,Apurva Shah,2011-06-06 The International Conference on Signals Systems and Automation ICSSA 2011 aims to spread awareness in the research and academic community regarding cutting edge technological advancements revolutionizing the world The main emphasis of this conference is on dissemination of information experience and research results on the current topics of interest through in depth discussions and participation of researchers from all over the world The objective is to provide a platform to scientists research scholars and industrialists for interacting and exchanging ideas in a number of research areas This will facilitate communication among researchers in different fields of Electronics and Communication Engineering The International Conference on Intelligent System and Data Processing ICISD 2011 is organized to address various issues that will foster the creation of intelligent solutions in the future The primary goal of the conference is to bring together worldwide leading researchers developers practitioners and educators interested in advancing the state of the art in computational intelligence and data processing for exchanging knowledge that encompasses a broad range of disciplines among various distinct communities Another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working in India and abroad **CUET (UG) Question Bank Chapter-wise and Topic-wise General Test | For 2024 Exam** Oswaal Editorial Board,2024-02-20 Description of the Product 100% Exam Ready With 2023 CUET UG Exam Papers Fully Solved with Explanations Concept Clarity With Revision Notes Chapter Analysis with updated pattern Extensive Practice With 800 Practice Questions of Previous Years 2021 2023 Fill Learning Gaps with Smart Mind Maps Concept Videos Valuable Exam Insights With Tips Tricks to ace CUET UG in 1st Attempt *Index of Conference Proceedings* British Library. Document Supply Centre,2000

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