

III Semester B.E. (E&E) Examination, Dec. 2018/Jan. 2019
(2K11 Scheme)

EE 301 : ANALOG ELECTRONIC CIRCUITS

Time : 3 Hours

Max. Marks : 100

Instruction : Answer any five full questions, by choosing atleast two from each Part.

PART – A

1. a) Classify the diode clipping circuits with neat circuits and relevant waveforms. 8
- b) For the circuit shown below figure 1. b) sketch the transfer characteristic and o/p waveform (Assume ideal diodes). 6

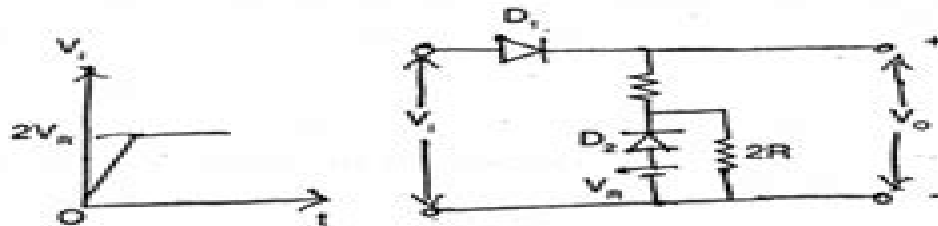


Fig. 1(b)

- c) Define clamping circuit and also explain the working of positive peak clamper. 6
2. a) Define Q-point. Discuss the issues related to stability of operating point of BJT amplifiers. 6
- b) Compare and contrast stability factor of fixed-bias and self-biased BJT circuits. 6
- c) Design a voltage divider bias circuit using a silicon transistor with $V_{CC} = 18V$, $I_C = 2.3 \text{ mA}$, $V_{CE} = 8.2 \text{ V}$, $R_C = 3.3 \text{ K}$, $\beta = 100$ and $S(I_{\infty}) \leq 5$. 8

Analog Electronic Circuit 3rd Sem Ec

**K. S. Suresh Kumar, K. S.. Suresh
Kumar**



Analog Electronic Circuit 3rd Sem Ec:

Analog Electronic Circuits (For 3rd Semester of APJKTU, Kerala) Sukumaran P., Analog Electronic Circuits

Electric Circuits and Networks K. S. Suresh Kumar, K. S. Suresh Kumar, 2008-08-05 *Electric Circuits and Networks* is designed to serve as a textbook for a two semester undergraduate course on basic electric circuits and networks. The book builds on the subject from its basic principles. Spread over seventeen chapters, the book can be taught with varying degrees of emphasis on its six subsections based on the course requirement. Written in a student-friendly manner, its narrative style places adequate stress on the principles that govern the behaviour of electric circuits and networks. *Analogue Electronic Circuits and Systems* Amitava Basak, 1991-11-29 This book is an undergraduate textbook for students of electrical and electronic engineering. It is written with second year students particularly in mind and discusses analogue circuits used in various fields. **Electric Circuits And Networks (For Gtu)** Kumar K. S. Suresh, 2010-09 **Analog Electronics**

Balwinder Singh, Ashish Dixit, 2007 **Analog Electronics**, 2025-09-26 The study of analog electronic circuits forms the cornerstone of modern electronics. Even in the era of digital dominance, analog circuits remain indispensable; they bridge the gap between the real world of continuous signals and the digital world of computation. This book, *Analog Electronic Circuits*, has been crafted to provide students with a clear and comprehensive understanding of the analog circuits. The motivation behind this book stems from the need for a balanced resource that not only explains the theoretical foundations of analog electronics but also emphasizes practical implementation, analysis, and troubleshooting. Topics such as amplifiers, feedback, oscillators, and power devices have been covered systematically. Special care has been taken to make the text accessible to undergraduate students. Each chapter builds on the previous, ensuring a gradual yet thorough progression from basic to more complex concepts. *Learning in the Age of Digital and Green Transition* Michael E. Auer, Wolfgang Pachatz, Tiia Rüttemann, 2023-02-22 We are currently witnessing a significant transformation in the development of education on all levels and especially in post-secondary education. To face these challenges, higher education must find innovative ways to quickly respond to these new needs. These were the aims connected with the 25th International Conference on Interactive Collaborative Learning ICL2022, which was held in Vienna, Austria, from September 27 to 30, 2022. Since its beginning in 1998, this conference is devoted to new approaches in learning with a focus on collaborative learning in higher education. This book contains papers in the fields of New Learning Models and Applications, Project Based Learning, Engineering Pedagogy, Education Research in Engineering Pedagogy, Teaching Best Practices, Real World Experiences, Academia Industry Partnerships, Trends in Master and Doctoral Research. Interested readership includes policymakers, academics, educators, researchers in pedagogy and learning theory, school teachers, the learning industry, further and continuing education, lecturers, etc. *Basic Electrical and Electronics Engineering-II (ASTU, Assam)* Jyoti Prasad Bandyopadhyay, Books in this series have been specially designed to meet the requirements of a large spectrum of engineering students of ASTU, those who

find learning concepts difficult and want to study through solved examples and those who wish to study the traditional way A large number of solved examples are the backbone of this series and are aimed at instilling confidence in the students to take on the examinations Basic Electrical and Electronics Engineering II has been specially designed to serve as a textbook for an introductory course on basic electrical and electronics engineering It meets the requirements of a large spectrum of 2ndsemester undergraduate students of all branches of engineering The book has been developed with an eye on the interpretation of concepts and application of theories The language has been kept very simple so that students are able to assimilate the subject matter with ease A large number of solved examples have also been provided for self assessment Key Features Complete coverage of all the modules of the syllabi of ASTU and also useful for GATE and other graduate level exams Comprehensive and lucid presentation of the basic concepts Over 120 worked out examples including conceptual guidelines Over 430 multiple choice questions with answers A large number of short questions and answers **University of Colorado at Colorado Springs Bulletin** University of Colorado at Colorado Springs,1994 **Proceedings** ,2003

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