

Laboratory 2:

BJT

OBJECTIVES

- The purpose of this lab is to learn how to use Atlas – Silvaco TCAD Tool.
- We learn how to use the Atlas command language to define a semiconductor device.
- We examine BJT Characteristic.

PREPARATION FOR LAB 2

- Install Silvaco Tool.
- Read User manual.

REFERENCE

1. Atlas User's Manual
2. TCAD Examples



Bjt Lab Manual

Farzin Asadi



Bjt Lab Manual:

Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari, M. M. S. Anand, 1979 **Laboratory Manual for Electronic Devices and Circuits** David A. Bell, 2001 This lab manual accompanies Electronic Devices and Circuits 4 e Analog Electronic Circuits Laboratory Manual Farzin Asadi, 2023-04-06 This is a book for a lab course meant to accompany or follow any standard course in electronic circuit analysis It has been written for sophomore or junior electrical and computer engineering students either concurrently with their electronic circuit analysis class or following that class This book is appropriate for non majors such as students in other branches of engineering and in physics for which electronic circuits is a required course or elective and for whom a working knowledge of electronic circuits is desirable This book has the following objectives 1 To support verify and supplement the theory to show the relations and differences between theory and practice 2 To teach measurement techniques 3 To convince students that what they are taught in their lecture classes is real and useful 4 To help make students tinkers and make them used to asking what if questions

Laboratory Manual for Pulse-Width Modulated DC-DC Power Converters Marian K. Kazimierczuk, Agasthya Ayachit, 2015-08-13 Designed to complement a range of power electronics study resources this unique lab manual helps students to gain a deep understanding of the operation modeling analysis design and performance of pulse width modulated PWM DC DC power converters Exercises focus on three essential areas of power electronics open loop power stages small signal modeling design of feedback loops and PWM DC DC converter control schemes and semiconductor devices such as silicon silicon carbide and gallium nitride Meeting the standards required by industrial employers the lab manual combines programming language with a simulation tool designed for proficiency in the theoretical and practical concepts Students and instructors can choose from an extensive list of topics involving simulations on MATLAB SABER or SPICE based platforms enabling readers to gain the most out of the prelab inlab and postlab activities The laboratory exercises have been taught and continuously improved for over 25 years by Marian K Kazimierczuk thanks to constructive student feedback and valuable suggestions on possible workroom improvements This up to date and informative teaching material is now available for the benefit of a wide audience Key features Includes complete designs to give students a quick overview of the converters their characteristics and fundamental analysis of operation Compatible with any programming tool MATLAB Mathematica or Maple and any circuit simulation tool PSpice LTSpice Synopsys SABER PLECS etc Quick design section enables students and instructors to verify their design methodology for instant simulations Presents lab exercises based on the most recent advancements in power electronics including multiple output power converters modeling current and voltage mode control schemes and power semiconductor devices Provides comprehensive appendices to aid basic understanding of the fundamental circuits programming and simulation tools Contains a quick component selection list of power MOSFETs and diodes together with their ratings important specifications and Spice models **Foundations of Electronics and Circuits**

and Devices Russell L. Meade, 1994 **Foundations of Electronics** Russell L. Meade, 1999 Learn electronics fundamentals for both DC and AC circuits from Ohms Law through series and parallel resonant circuits This highly acclaimed introduction to the world of electronics technology has been carefully updated to better provide technicians with a foundation in modern electronics needed to launch a career or pursue more advanced study Real world color codes and strategic highlighting are integrated with ample color charts photos schematics and diagrams for a solid understanding of circuit behavior that equips readers to progress to more complex topics with ease This edition features all new automated calculations for the formulas in the book on the accompanying CD as well as new information on admittance susceptance and more **The International Journal of Applied Engineering Education** , 1991 **Principles of Electronic Circuits** Stanley G. Burns, Paul R. Bond, 1997 Accompanying CD ROM includes Evaluation version of PSPICE SPICE netlists Electronic Workbench circuit models and Acrobat transparencies **Proceedings** American Society for Engineering Education. Conference, 1992 **Engineering Education, Preparation for Life** American Society for Engineering Education. Conference, 1984 *Laboratory Manual for Microelectronic Circuits* Kenneth C. Smith, Adel S. Sedra, 1991 This manual contains approximately 35 experiments It follows the organization of the text and includes experiments for all major topics To help instructor s choose and prepare for the experiments this manual identifies the core experiments all students should perform and includes manufacturers data sheets for the most common components Electricity Maloney, 1992-03 ALSO AVAILABLE INSTRUCTOR SUPPLEMENTS CALL CUSTOMER SUPPORT TO ORDER Computerized Test Bank ISBN 0 8273 4678 6 Printed Test Bank ISBN 0 8273 4658 1 Instructor s Guide ISBN 0 8273 4677 8 **The Publishers' Trade List Annual** , 1978 **Lab Manual for Electronics** Martin Feldman, 2001-11 The emphasis is first on understanding the characteristics of basic circuits including resistors capacitors diodes and bipolar and field effect transistors The readers then use this understanding to construct more complex circuits such as power supplies differential amplifiers tuned circuit amplifiers a transistor curve tracer and a digital voltmeter In addition readers are exposed to special topics of current interest such as the propagation and detection of signals through fiber optics the use of Van der Pauw patterns for precise linewidth measurements and high gain amplifiers based on active loads KEY TOPICS Chapter topics include Thevenin s Theorem Resistive Voltage Division Silicon Diodes Resistor Capacitor Circuits Half Wave Rectifiers DC Power Supplies Diode Applications Bipolar Transistors Field Effect Transistors Characterization of Op Amp Circuits Transistor Curve Tracer Introduction to PSPICE and AC Voltage Dividers Characterization and Design of Emitter and Source Followers Characterization and Design of an AC Variable Gain Amplifier Design of Test Circuits for BJT s and FET s and Design of FET Ring Oscillators Design and Characterization of Emitter Coupled Transistor Pairs Tuned Amplifier and Oscillator Design of Am Radio Frequency Transmitter and Receiver Design of Oscillators Using Op Amps Current Mirrors and Active Loads Sheet Resistance Design of Analog Fiber Optic Transmission System Digital Voltmeter **Proceedings** American Society for

Engineering Education,1990 Technological Advancement Through Canada-U.S.-global Interchange American Society for Engineering Education. Conference,1990 Proceedings of the Fourteenth Biennial University/Government/Industry Microelectronics Symposium ,2001 **High-Power Audio Amplifier Construction Manual** G. Randy Slone,1999-05-22
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