

ECT202	ANALOG CIRCUITS	CATEGORY	L	T	P	CREDIT
		PCC	3	1	0	4

Preamble: This course aims to develop the skill of analyse and design of different types of analog circuits using discrete electronic components.

Prerequisite: EST130 Basics of Electrical and Electronics Engineering

Course Outcomes: After the completion of the course the student will be able to

CO 1	Design analog signal processing circuits using diodes and first order RC circuit
CO 2	Analyse basic amplifiers using BJT and MOSFET
CO 3	Apply the principle of oscillator and regulated power supply circuits.

Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3										2
CO 2	3	3										2
CO 3	3	3										2

Assessment Pattern

Bloom's Category		Continuous Assessment Tests		End Semester Examination
		1	2	
Remember	K1	10	10	10
Understand	K2	20	20	20
Apply	K3	20	20	70
Analyse	K4			
Evaluate				
Create				

Mark distribution

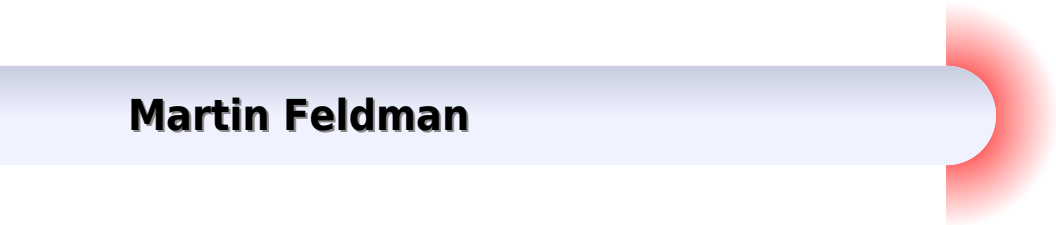
Total Marks	CIE	ESE	ESE Duration
150	50	100	3 hours

Continuous Internal Evaluation Pattern:

Attendance	: 10 marks
Continuous Assessment Test (2 numbers)	: 25 marks
Assignment/Quiz/Course project	: 15 marks

Analog Electronic Circuits Lab Manual Vtu Syllabus

Martin Feldman



Analog Electronic Circuits Lab Manual Vtu Syllabus:

Introduction to Analog and Digital Circuits Lab Manual Brian DEAN, 2018-08-13 **Practical Analog Electronics for Technicians** W A Kimber, 2013-11-05 Practical Analog Electronics for Technicians not only provides an accessible introduction to electronics but also supplies all the problems and practical activities needed to gain hands on knowledge and experience This emphasis on practice is surprisingly unusual in electronics texts and has already gained Will Kimber popularity through the companion volume Practical Digital Electronics for Technicians Written to cover the Advanced GNVQ optional unit in electronics this book is also ideal for BTEC National A level electronics and City Guilds courses Together with Practical Digital Electronics for Technicians this text comprises a complete practical electronics course designed for students with little prior knowledge of the subject Analog Electronic Circuits Laboratory Manual Farzin Asadi, 2024-04-08 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 Analog Electronics with Op-amps A. J. Peyton, Vincent Walsh, 1993-08-12 A reference volume of analog electronic circuits based on the op amp containing practical detail and technical advice *Experiments in Analog Electronics* Wayne Hope, 1995-01-01 *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 **Applied Analog Electronics: A First Course In Electronics** Kevin Karplus, 2023-06-06 This textbook is for a first course on electronics. It assumes no prior electronics experience but does assume that students have had calculus 1 single variable differential calculus and high school physics. A key idea of the course is that students need a lot of design experience and hands on work rather than a lot of theory. The course is centered around the labs which are a mix of design labs and measurement modeling labs. This unique volume takes students from knowing no electronics to being able to design and build amplifier and filter circuits for connecting sensors to microcontrollers within 20 weeks. Students design a digital thermometer a blood pressure meter an optical pulse monitor an EKG an audio preamplifier and a class D power amplifier. They also learn how to measure and characterize components including impedance spectroscopy of a loudspeaker and of electrochemical electrodes. Related Link s *Analog Electronics in a Digital Setting* Gerald E. Williams, 1988-01-01 *Laboratory Manual for Introductory Electronics Experiments* L. K. Maheshwari, M. M. S. Anand, 1979 **Analog Electronics** Ian Hickman, 1999-06-10 Analog Electronics is a vital book for all electronics designers to have to hand it will answer nagging questions about core analog theory and design principles as well as offering practical design ideas. The second edition of this popular text has been enhanced with concise design implementations with many of the circuits taken from Ian Hickman s magazine articles. Although not a traditional textbook Analog Electronics is also an ideal course text for students at HNC HND and degree level. The contents have been carefully matched to provide full coverage of the appropriate units in the new BTEC Higher National Engineering scheme from Edexcel. Ian Hickman is looked to by thousands of circuit designers for his innovative design ideas and clear explanations of the fundamentals of analog circuit design. This book is a distillation of Hickman s design insights introducing all the main areas of analog electronics. The professional text for analog electronics. Includes numerous practical circuit ideas [Analog Electronic Circuits](#) Beijia Ning, 2018 A comprehensive collection of fundamental principles and applications of analog electronic circuits including semiconductor diodes bipolar junction transistors field effect transistors FETs operational amplifiers power amplifiers and feedback circuits. With abundant practical examples it is an essential reference for researchers students and engineers in electronical engineering and information processing **Analog Electronics** Gerald Earl Williams, 1996 This comprehensive electronics text designed for electronics technology majors provides a real world orientation for future working technicians. Numerous carefully designed drawings and photos are included throughout to insure that each concept is fully understood. Includes the latest analog integrated circuits. Digital Applications show students the importance of digital in the analog world. All discussions are interrelated by common theme of feedback. Specially designed transistor circuit analysis flow charts simplify basic transistor concepts. Manageable for one semester. Accompanied by superior lab and instructor s manuals and a unique Student Survival Guide for Analog Electronics by the text author. ALSO AVAILABLE Laboratory Manual ISBN 0 314 04677 1 INSTRUCTOR SUPPLEMENTS CALL

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Keywords Electronic Devices **LABORATORY EXPERIMENTS AND PSPICE SIMULATIONS IN ANALOG**

ELECTRONICS MAHESHWARI, L. K.,ANAND, M. M. S.,2006-01-01 This laboratory manual for students of Electronics Electrical Instrumentation Communication and Computer engineering disciplines has been prepared in the form of a standalone text offering the necessary theory and circuit diagrams with each experiment Procedures for setting up the circuits and measuring and evaluating their performance are designed to support the material of the authors book Analog Electronics also published by PHI Learning There are twenty five experiments The experiments cover the basic transistor circuits the linear op amp circuits the active filters the non linear op amp circuits the signal generators the voltage regulators the power amplifiers the high frequency amplifiers and the data converters In addition to the hands on experiments using traditional test equipment and components this manual describes the simulation of circuits using PSPICE as well For PSPICE simulation any available standard SPICE software may be used including the latest version OrCAD V10 Demo software This feature allows the instructor to adopt a single laboratory manual for both types of experiments Analog Electronic Circuits

A. P. Godse,2009 Diode CircuitsDiode resistance Diode equivalent circuits Transition and diffusion capacitance Reverse recovery time Load line analysis Rectifiers Clippers and clampers Transistor BiasingOperating point Fixed bias circuits Emitter stabilized biased circuits Voltage divider biased D C bias with voltage feedback Miscellaneous bias configurations Design operations Transistor switching networks PNP transistors Bias stabilization Transistor at Low FrequenciesBJT transistor modeling Hybrid equivalent model CE fixed bias configuration Voltage divider bias Emitter follower CB configuration Collector feedback configuration Hybrid equivalent model Transistor Frequency ResponseGeneral frequency considerations Low frequency response Miller effect capacitance High frequency response Multistage frequency effects General Amplifiers Cascade connections Cascode connections Darlington connections Feedback Amplifier Feedback concept Feedback connections type Practical feedback circuits Power AmplifiersDefinitions and amplifier types Series fed class A amplifier Transformer coupled class A amplifiers Class B amplifier operations Class B amplifier circuits Amplifier distortions OscillatorsOscillator operation Phase shift oscillator Wienbridge oscillator Tuned oscillator circuits Crystal oscillator FET AmplifiersFET small signal model Biasing of FET Common drain common gate configurations MOSFETs FET amplifier networks **ANALOG ELECTRONICS** A. KANDASWAMY,ANDRÉ PITTET,2009-09-01 The recent growth of industrial

automation as well as wireless communication has made the Analog Electronics course even more relevant in today s undergraduate programmes This well written text offers a comprehensive introduction to the concepts of circuit analysis electronic devices and analog integrated circuits The primary aim of this textbook is to raise the analytical skills of students required for the analysis and design of analog electronic circuits This book exposes the students to the current trends in Analog Electronics including the complete analysis and design of electronic circuit using Diodes BJTs FETs MOSFETs CMOS

and operational amplifiers Analog Electronics Ian Hickman,2013-10-02 Analog Electronics is an 11 chapter text that covers the significant advances in several aspects of analog electronics with emphasis on how analog circuits work The opening chapters consider the passive and active components of analog circuits The succeeding chapters deal with the amplification of audio frequency electrical signals and their transformation into sound waves as well as the passive signal processing and transmission The discussion then shifts to the active signal processing in frequency and time domain Other chapters examine the mechanism of radio frequency circuits signal sources and power supplies The closing chapter tackles the commercial and professional application of electronics This book will prove useful to engineers technicians and students

Analog Electronic Circuits R. Northrup,1990-01-01 **Analog Electronic Circuits and Systems** Gary E. Ford,Carl M. Arft,2006-06-05 **Testing and Diagnosis of Analog Circuits and Systems** Ruey-wen Liu,2012-12-06 IS THE TOPIC ANALOG TESTING AND DIAGNOSIS TIMELY Yes indeed it is Testing and Diagnosis is an important topic and fulfills a vital need for the electronic industry The testing and diagnosis of digital electronic circuits has been successfully developed to the point that it can be automated Unfortunately its development for analog electronic circuits is still in its Stone Age The engineer's intuition is still the most powerful tool used in the industry There are two reasons for this One is that there has been no pressing need from the industry Analog circuits are usually small in size Sometimes the engineer's experience and intuition are sufficient to fulfill the need The other reason is that there are no breakthrough results from academic research to provide the industry with critical ideas to develop tools This is not because of a lack of effort Both academic and industrial research groups have made major efforts to look into this problem Unfortunately the problem for analog circuits is fundamentally different from and much more difficult than its counterpart for digital circuits These efforts have led to some important findings but are still not at the point of being practically useful However these situations are now changing The current trend for the design of VLSI chips is to use analog digital hybrid circuits instead of digital circuits from the past Therefore even though the analog circuit may be small the total circuit under testing is large **Analog Electronic Circuit** Beijia Ning,2018-09-24 A comprehensive collection of fundamental principles and applications of analog electronic circuits including semiconductor diodes bipolar junction transistors field effect transistors FETs operational amplifiers power amplifiers and feedback circuits With abundant practical examples it is an essential reference for researchers students and engineers in electronical engineering and information processing

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