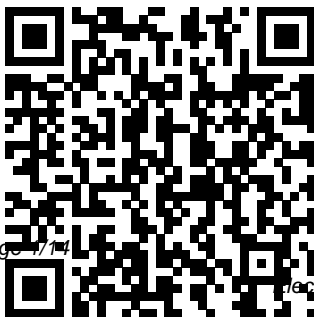


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# Electronic Circuit Analysis Jntu

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**Linear Integrated Circuits  
And Applications** Pearson  
Education India

This junior-level electronics text provides a foundation for analyzing and designing analog and digital electronic circuits. Computer analysis and design are recognized as significant factors in electronics throughout the book. The use of computer tools is presented carefully, alongside the important hand analysis and calculations. The author, Don Neamen, has many years experience as an engineering educator and an engineer. His experience shines through each chapter of the book, rich with realistic examples and practical rules of thumb. The book is divided into three parts. Part 1 covers semiconductor devices and basic circuit applications. Part 2 covers more advanced topics in analog electronics, and Part 3 considers digital electronic circuits.

**Managerial Economics  
And Financial Analysis**  
Electronic Circuit

**Analysis:**

This book covers the syllabus of various universities on electrical Circuits and in particular, the syllabus of JNTU w.e.f 2009. This book is written in very simple language and is therefore easy to follow. The book presents the systematic presentation of basic concepts and techniques involved in circuit analysis with illustrated examples. Previous 'Examination Solved Questions' and Objective Questions have been given in the relevant chapters and good numbers of

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example have also been given in exercise for students to practice. Electrical Circuit Theory and Technology PHI Learning Pvt. Ltd.

This textbook deals with the analysis and design of analog CMOS integrated circuits, emphasizing recent technological developments and design paradigms that students and practicing engineers need to master to succeed in today's industry. Based on the author's teaching and research experience in the past ten years, the text follows three general principles: (1) Motivate the reader by describing the significance and application of each idea with real-world problems; (2) Force the reader to look at concepts from an intuitive point of view, preparing him/her for more complex

problems; (3) Complement the intuition by rigorous analysis, confirming the results obtained by the intuitive, yet rough approach.

Linear Circuit Analysis  
Pearson Education India  
Single Stage Amplifiers Review, Small signal analysis of junction transistor, Frequency response of common emitter amplifier, Common base amplifier, Common collector amplifier, JFET amplifiers, Common drain (CD) amplifier, Common gate amplifier, gain bandwidth product. Multistage Amplifiers Multi stage amplifiers, Methods of inter stage coupling, n-stage cascaded amplifier, Equivalent circuits, Miller's theorem, Frequency effects, Amplifier analysis, High input resistance transistor circuits, Cascode - transistor configuration, CE-CC amplifiers, Two

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stage RC coupled JFET amplifier (in common source (CS) configuration), Difference amplifier. High Frequency Transistor Circuits Transistor at high frequencies, Hybrid-common emitter, Transconductance model, Determination of hybrid-conductances, Variation of Hybrid parameters with  $|I_C|$ ,  $|V_{CE}|$  and temperature. The parameters  $f_T$ , expression for  $f$ , Current gain with resistance load, CE short circuit current gain, Hybrid - ( $\pi$ ) parameters, Measurement of  $f_T$  variation of Hybrid- parameters with Voltage, Current and temperature, Design of high frequency amplifier. Power Amplifiers Class A power amplifier, Maximum value of efficiency of class a amplifier, Transformer coupled amplifier, Transformer coupled audio

amplifier, Push pull amplifier, Complimentary symmetry circuits (Transformer less class B power amplifier), Phase inverters, Class D operation, Class S operation, Heat sinks. Tuned Amplifiers - I Single tuned capacitive coupled amplifier, Tapped single tuned capacitance coupled amplifier, Single tuned transformer coupled or inductively coupled amplifier, CE double tuned amplifier, Application of tuned amplifiers. Tuned Amplifiers - II Stagger tuning, Stability considerations, Tuned Class B and Class C amplifiers, Wideband amplifiers, Tuned amplifiers. Voltage Regulators Terminology, Basic regulator circuit, Short circuit protection, Current limiting, Specifications of voltage regulator circuits, Voltage multipliers. Switching and IC

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Voltage Regulators IC 723  
voltage regulators and three  
terminal IC regulators, DC  
to DC converter, Switching  
regulators, Voltage  
Multipliers, UPS, SMPS.

Introduction to Circuit  
Analysis and Design Elsevier

This book on network  
analysis is generally one of  
the basic texts a student of  
engineering refers to. While  
currently available books on  
the subject adequately cover  
the different facets the  
authors feel that there is still  
a need for a book which  
provides all the necessary  
material required by the  
students of electrical and  
electronic engineering at  
one place for a solid  
foundation in the area of  
Circuit Theory. The  
purpose of writing this book  
is therefore to fulfil this  
requirement. The material  
presented in this book can

be covered adequately in two  
semesters. The authors have  
tried to present the concepts  
of network analysis in a lucid  
way so that a student reading  
this book will be able to  
understand the subject  
easily. No prerequisites other  
than a rudimentary  
knowledge of physics  
including the concepts of  
electricity and magnetism  
are necessary.

Electronic Circuit Analysis  
and Design S. Chand  
Publishing

Differential Amplifiers Analysis  
of differential amplifier,  
common mode and  
differential mode gains,  
transfer characteristics,  
CMRR, I/P and O/P  
impedances, high performance  
amplifiers using current source  
bias and current mirror  
connection. Drift  
Problem Thermal drift, input  
error signals and their  
compensation in differential

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amplifier. Operational Amplifier Ideal op-amp characteristics, cascading of differential amplifier. I/P, O/P stages and level translators, multistage op-amps, frequency response and stability. Frequency and phase compensation techniques. Some commercial op-amp parameters, features (IC 741, MC 1530). Op-amp Applications Inverting and non-inverting, differential and bridge amplifiers, summer, integrator, differentiator. V to I and I to V converters, op-amp feedback limiters using diodes, zener diodes, log and antilog amplifiers, analog multipliers, dividers, sample and hold circuits. Peak detectors, precision rectifiers, instrumentation amplifier, monostable and astable multivibrators, comparators-Schmitt trigger using op-amp. Active Filters First and second order Butterworth filters, design and its response

(LP, HP, BP, BE, Narrow band, all pass filters). Timers Basic timer circuit 555 timer used as astable and monostable multivibrator. Data Converters and Data Acquisition System D/A converters, basic D/A converter, weighted binary type, ladder R-2R D/A converters, performance parameters and source of errors. A/D Converters Basic V/F converter, V/T converter, single slope and dual slope converter. A/D converter using D/A converter, counter ramp, continuous counter ramp, successive approximation, flash converter. Communication Amplifications Cascade amplifiers MC1550 for video, RF and amplitude modulation, AGC application, PLL, brief study of PLL system, applications of PLL for AM, FM detection, FSK decoder, frequency synthesis using commercial PLL (IC 565). Voltage

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Regulators Analysis and design of series and shunt regulators using DC amplifiers, some commercial voltage regulators (MC 78XX series, IC 723), high current negative voltage with foldback limiting concepts, switching regulators - basic concepts and applications.

Network Analysis, 2Nd Ed. McGraw-Hill Companies Today ' s control system designers face an ever-increasing “ need for speed and accuracy in their system measurements and computations. New design approaches using microcontrollers and DSP are emerging, and designers must understand these new approaches, the tools available, and how best to apply them. This practical text covers the latest techniques in microcontroller-based control system design,

making use of the popular MSP430 microcontroller from Texas Instruments.

The book covers all the circuits of the system, including:

- Sensors and their output signals
- Design and application of signal conditioning circuits
  - A-to-D and D-to-A circuit design
- Operation and application of the powerful and popular TI MSP430 microcontroller
- Data transmission circuits
- System power control circuitry

Written by an experienced microcontroller engineer and textbook author, the book is lavishly illustrated and includes numerous specific circuit design examples, including a fully tested and documented hands-on project using the MSP430 that makes use of the principles described. For students, engineers,

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technicians, and hobbyists, this practical text provides the answers you need to design modern control systems quickly and easily. Seasoned Texas Instruments designer provides a ground-up perspective on embedded control systems. Pedagogical style provides a self-learning approach with examples, quizzes and review features. Electrical Circuit Analysis New Age International Textbook for a first course in circuit analysis

Network Analysis (As Per Latest Jntu Syllabus) Tata McGraw-Hill Education

The second edition of this well-received text continues to provide a coherent and comprehensive coverage of Pulse and Digital Circuits, suitable as a textbook for use by undergraduate students pursuing courses in Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and

Instrumentation Engineering, and Telecommunication Engineering. It presents clear explanations of the operation and analysis of semiconductor pulse circuits. Practical pulse circuit design methods are investigated in detail. The book provides numerous fully worked-out, laboratory-tested examples to give students a solid grounding in the related design concepts. It includes a number of classroom-tested problems to encourage students to apply theory in a logical fashion. Review questions, fill in the blanks, and multiple choice questions offer the students the opportunity to test their understanding of the text material. This text will be also appropriate for self-study by AMIE and IETE students. NEW TO THIS EDITION :

- Includes two new chapters—Logic Gates and Logic Families—to meet the curriculum requirements.
- Provides short questions with answers at the end of each chapter.
- Presents several new illustrations, examples and exercises



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## Circuits and Networks:

Pearson Education India

## Circuits & Networks:

Analysis, Design, and

Synthesis has been designed

for undergraduate students

of Electrical, Electronics,

Instrumentation, and

Control Engineering. The

book is structured to provide

an in-depth knowledge of

electrical circuit analysis,

design, and synthesis.

## switching theory & logic

## design New Age International

The book covers all the

aspects of theory, analysis, and

design of Electronic Circuits

for the undergraduate course.

The concepts of biasing of

BJT, JFET, MOSFET, along

with the analysis of BJT, FET,

and MOSFET amplifiers, are

explained comprehensively.

The frequency response of

amplifiers is explained in

support. The detailed essential

of rectifiers, filters, and power

supplies are also incorporated

in the book. The book covers

biasing of BJT, JFET, and

MOSFET and analysis of basic

BJT, JFET, and MOSFET

amplifiers with Hybrid

equivalent circuits. It also

includes the Darlington

amplifier discussion, amplifiers

using Bootstrap technique,

multistage amplifiers,

differential amplifiers, and

BiCMOS cascade amplifier.

The in-depth analysis of the

frequency response of various

amplifiers is also included in

the book. Finally, the book

covers all the aspects of

rectifiers, types of filters, linear

regulators, power supplies, and

switching regulators. The book

uses straightforward and lucid

language to explain each topic.

The book provides the logical

method of describing the

various complicated issues and

stepwise methods to make

understanding easy. The

variety of solved examples is

the feature of this book. The

book explains the subject's

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philosophy, which makes understanding the concepts evident and makes the subject more interesting.

### Analog Electronic Circuits

OUP India

It is divided into two parts covering the topics of Electrical Circuit Analysis for the two semesters of second year. The material presented in this book is outcome of the vast experience the authors gained while teaching the subject to the undergraduate students for a long time.

ELECTRONICS LAB  
MANUAL (VOLUME 2)

Routledge

This book is an introductory textbook on Analog Electronics and circuits for undergraduate, Post graduate and beginner students. It aims at exploring the basic electronic devices such as clippers, clampers, oscillators, and Operational Amplifiers. It also explores the applications of clipper circuits in relevant places

to inculcate interest among readers. It is probably no longer possible to cover everything in a single semester. Because of this, we have structured the book so that readers can find easy to understand the basic electronic circuits.

Basic Electrical Engineering

McGraw Hill Professional

The knowledge of switchgear and apparatus protection plays an important role in the power system. The book is structured to cover the key aspects of the course Switchgear & Protection for undergraduate students. The book starts with the discussion of basics of protective relaying. The book includes comprehensive coverage of faults and analysis of symmetrical and unsymmetrical faults. The book explains the protection against overvoltage, lightning arresters and power system earthing. The book covers the characteristics of various types of relays such as electromagnetic relays, induction type relays, directional relays, differential relays, thermal relays, frequency relays and negative sequence relays. The detailed

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discussion of distance relays and static relays is also included in the book. The book also covers the various possible faults and methods of protection of transformers, generators, motors, busbars and transmission lines. The book further explains the theory of circuit interruption and various arc interruption methods. Finally, the book incorporates various types of circuit breakers, circuit breaker ratings and testing of circuit breakers. The book uses plain and lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Power Electronics S. Chand Publishing  
Introduction to Circuit Analysis and Design takes the

view that circuits have inputs and outputs, and that relations between inputs and outputs and the terminal characteristics of circuits at input and output ports are all-important in analysis and design. Two-port models, input resistance, output impedance, gain, loading effects, and frequency response are treated in more depth than is traditional. Due attention to these topics is essential preparation for design, provides useful preparation for subsequent courses in electronic devices and circuits, and eases the transition from circuits to systems.

Circuits and Networks  
McGraw-Hill Science,  
Engineering & Mathematics  
For close to 30 years, Basic  
Electrical Engineering has  
been the go-to text for students  
of Electrical Engineering.  
Emphasis on concepts and  
clear mathematical  
derivations, simple language

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coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand. Switchgear & Protection Pearson Education India Ideal for students on all construction courses Topics presented concisely in plain language and with clear drawings Updated to include revisions to Building and Construction regulations The Building Construction Handbook is THE authoritative reference for all construction students and professionals. Its detailed drawings clearly illustrate the construction of building

elements, and have been an invaluable guide for builders since 1988. The principles and processes of construction are explained with the concepts of design included where appropriate. Extensive coverage of building construction practice, techniques, and regulations representing both traditional procedures and modern developments are included to provide the most comprehensive and easy to understand guide to building construction. This new edition has been updated to reflect recent changes to the building regulations, as well as new material on the latest technologies used in domestic construction. Building Construction Handbook is the essential, easy-to-use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National, through to Higher National

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Certificate and Diploma, to Foundation and three-year Degree level. It is also a useful practical reference for building designers, contractors and others engaged in the construction industry.

**PULSE AND DIGITAL CIRCUITS S. Chand Publishing**

This book is designed based on revised syllabus of JNTU, Hyderabad (AICTE model curriculum) for undergraduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and

Electrical Installation. Power System Analysis Elsevier

Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students outside electrical and electronics engineering to easily Basic Electrical and Electronics Engineering: McGraw-Hill Science Engineering Network Analysis is a basic textbook for the foundation course on Network & Electric Circuits, which Electrical, Electronics and Communications Engineering students have to study in their initial years of Engineering curriculum. The subject matter is explained in simple lucid language backed up with numerous examples prompting the student to solve the problems given at the end of each chapter. This book is

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specifically organized for the benefit of First year EEE and ECE students of Jawaharlal Nehru Technological University (JNTU). Salient Features - Covers the subject in Nine chapters. - Numerous problems are solved to enable students to understand the concepts and solve the problems. - Comprehensive database of 500 MCQs with answers are given for benefit of students preparing for competitive examinations like IES, GATE etc.