



PULSE & DIGITAL CIRCUITS

COURSE OBJECTIVES:

- Analyze the behavior of linear and non linear wave shaping circuits.
- Analyze and design of Multivibrators.
- Understand the operation of OP-AMP and its internal circuits.
- Analyze the applications of OP-AMP and 555 Timer.
- 5.Explain the operation of various data converter circuits and PLL.

COURSE OUTCOMES:

- Construct different linear and non linear networks and analyse their response to different input signals.
- Understand, analyse and design multivibrators and sweep circuits using transistors.
- Analyse DC characteristics and AC characteristics for single/Dual input Balanced/Unbalanced output configurations using BJTs and OP-AMP.
- Distinguish various linear and nonlinear applications of OP-AMP.
- Demonstrate the various applications of 555 Timer and analyse the operation of the D/A and A/D converters.

Pulse Digital Circuits

**Chiranjeevi Pudari, Syed
Zaheeruddin, Pradeep Kumar S**



Pulse Digital Circuits:

Pulse and Digital Circuits: Venkata Rao K, Rama Sudha K, Manmadha Rao G, 2010 Pulse and Digital Circuits caters to the needs of undergraduate students of electronics and communication engineering. It covers key topics in the area of pulse and digital circuits. It is an introductory text on the basic concepts involved in the PULSE AND DIGITAL CIRCUITS, Second Edition KUMAR, A. ANAND, 2008-02-12. 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. **Pulse and Digital Circuits** Jacob Millman, Herbert Taub, 1956 Pulse, Digital, and Switching Waveforms Jacob Millman, Herbert Taub, 1965 *Pulse, Dig & Switching Wave* Jacob Millman, 2008-03-07. This book on Pulse Digital Circuits offers the wide ranging concepts of design analysis of pulse generation and waveform shaping circuits in a reader friendly manner. **Fundamentals of Pulse and Digital Circuits** Ronald J. Tocci, 1972 **Pulse and Digital Circuits** Anand Kumar, 2004-10 **Pulse and Digital Circuits** Prakash Rao, 2006-03 Pulse and Digital Circuits Mothiki S. Prakash Rao, 2006 Digital Electronics John Morris, 2013-09-05. An essential companion to John C Morris's Analogue Electronics, this clear and accessible text is designed for electronics students, teachers and enthusiasts who already have a basic understanding of electronics and who wish to develop their knowledge of digital techniques and applications. Employing a discovery based approach, the author covers fundamental theory before going on to develop an appreciation of logic networks, integrated circuit applications and analogue digital conversion. A section on digital fault finding and useful IC data sheets completes the book. **Solid State Pulse Circuits** David A. Bell, 1976 Millman's Pulse, Digital and Switching Waveforms Herbert Taub, 2007. Detailed coverage of the building blocks of pulse and digital circuits. Comprehensively dealt with chapters on wide band amplifier, clipping, clamping circuit, comparators, time base generators etc. Transient characteristics are discussed with emphasis on **Pulse and Digital Circuits** Mr. Rohit Manglik, 2024-04-06. EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources. Specializing in competitive exams and academic

support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Pulse and Digital Circuits: For JNTUK K. Venkata Rao, K. Rama Sudha, Manmadha G. Rao, 2011 Pulse and Digital Circuits For JNTUK is designed to meet the requirements of undergraduate students of electronics and communication and electrical and electronic engineering of JNTU Kakinada This introductory text discusses the basic concepts involved in the design operation and analysis of wave shaping circuits with exhaustive mathematical treatment and presents comprehensive coverage of multi vibrators and sweep generators

Pulse and Digital Circuits John J. Canavan, LeRoy Stevens, 1973 *Pulse, Digital Circuits and Computer Fundamentals* R. Venkantaraman, 1990 *Pulse Fundamentals and Small-scale Digital Circuits* William H. Baumgartner, 1985

Pulse and Digital Circuits Through Experimentation Chiranjeevi Pudari, Syed Zaheeruddin, Pradeep Kumar S, 2019-08-12 Operator's, Organizational, Direct Support and General Support Maintenance Manual (including Repair Parts and Special Tools List) for Transponder Set, Test Set AN/APM-378 (NSN 4920-00-134-1533)., 1990

DIGITAL ELECTRONICS KUMAR, A. ANAND, 2025-04-14 This text provides coherent and comprehensive coverage of Digital Electronics It is designed as one semester course for the undergraduate and postgraduate students pursuing courses in areas of engineering disciplines and science It is also useful as a text for Polytechnic and MCA students Appropriate for self study the book is useful even for AMIE and grad IETE students Written in a student friendly style the book provides an excellent introduction to digital concepts and basic design techniques of digital circuits It discusses Boolean algebra concepts and their application to digital circuitry and elaborates on both combinational and sequential circuits It provides numerous fully worked out laboratory tested examples to give students a solid grounding in the related design concepts It includes a number of short questions with answers review questions fill in the blanks with answers objective type questions with answers and exercise problems at the end of each chapter

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