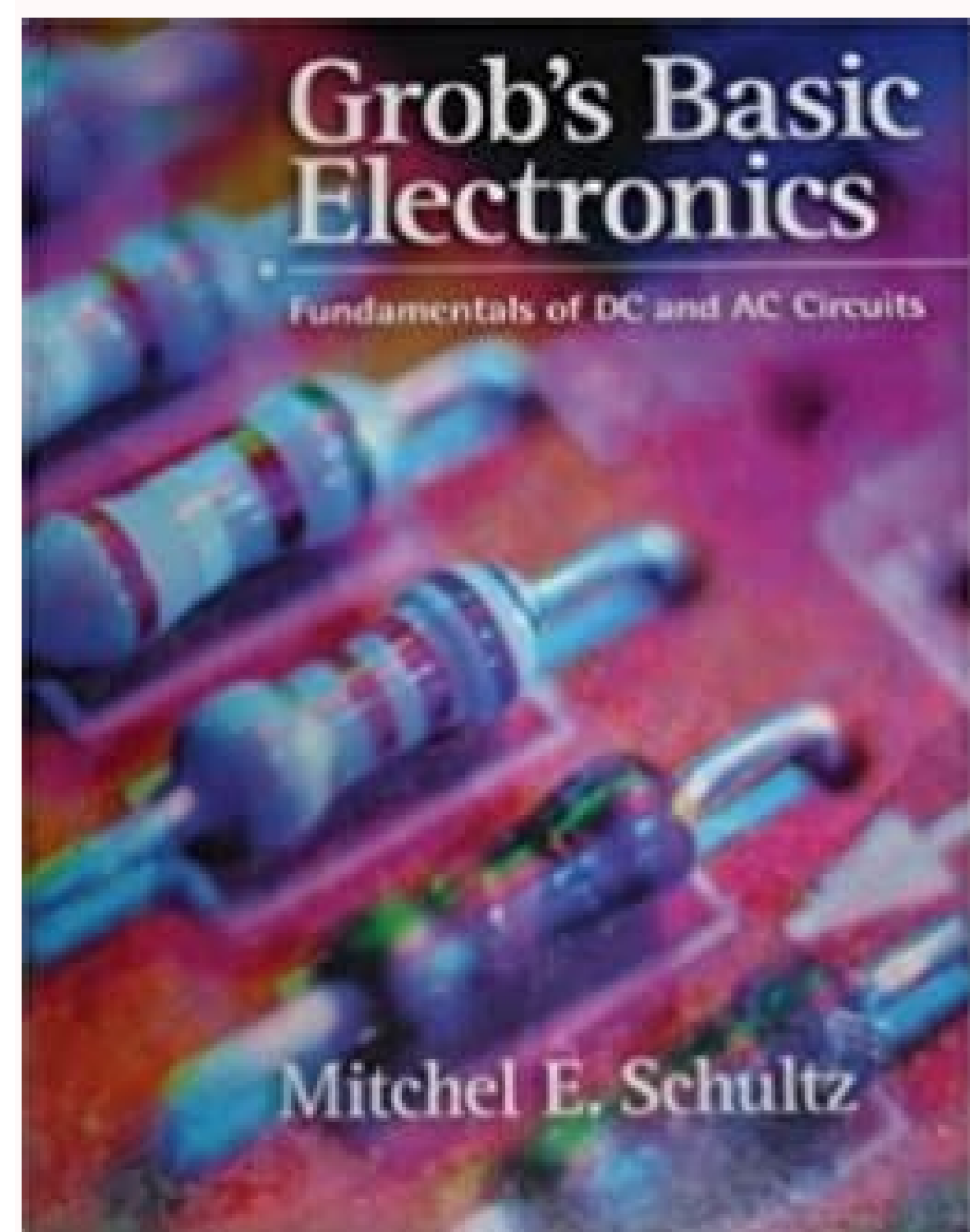
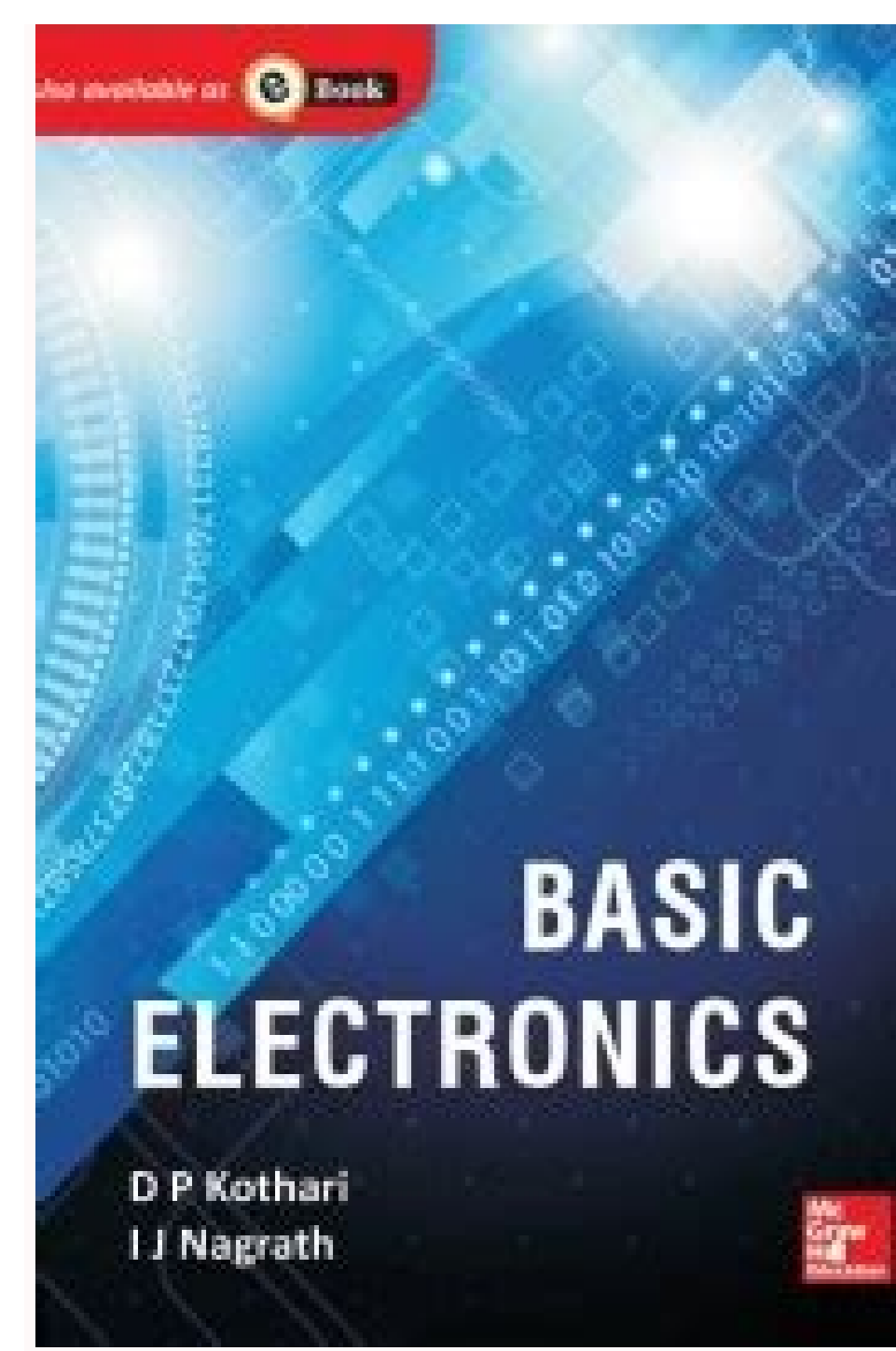
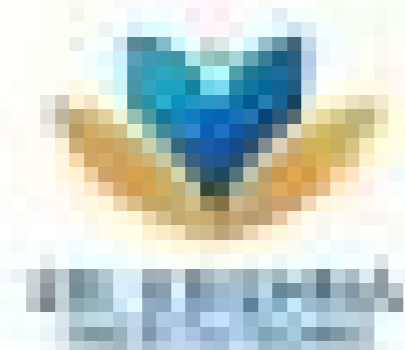


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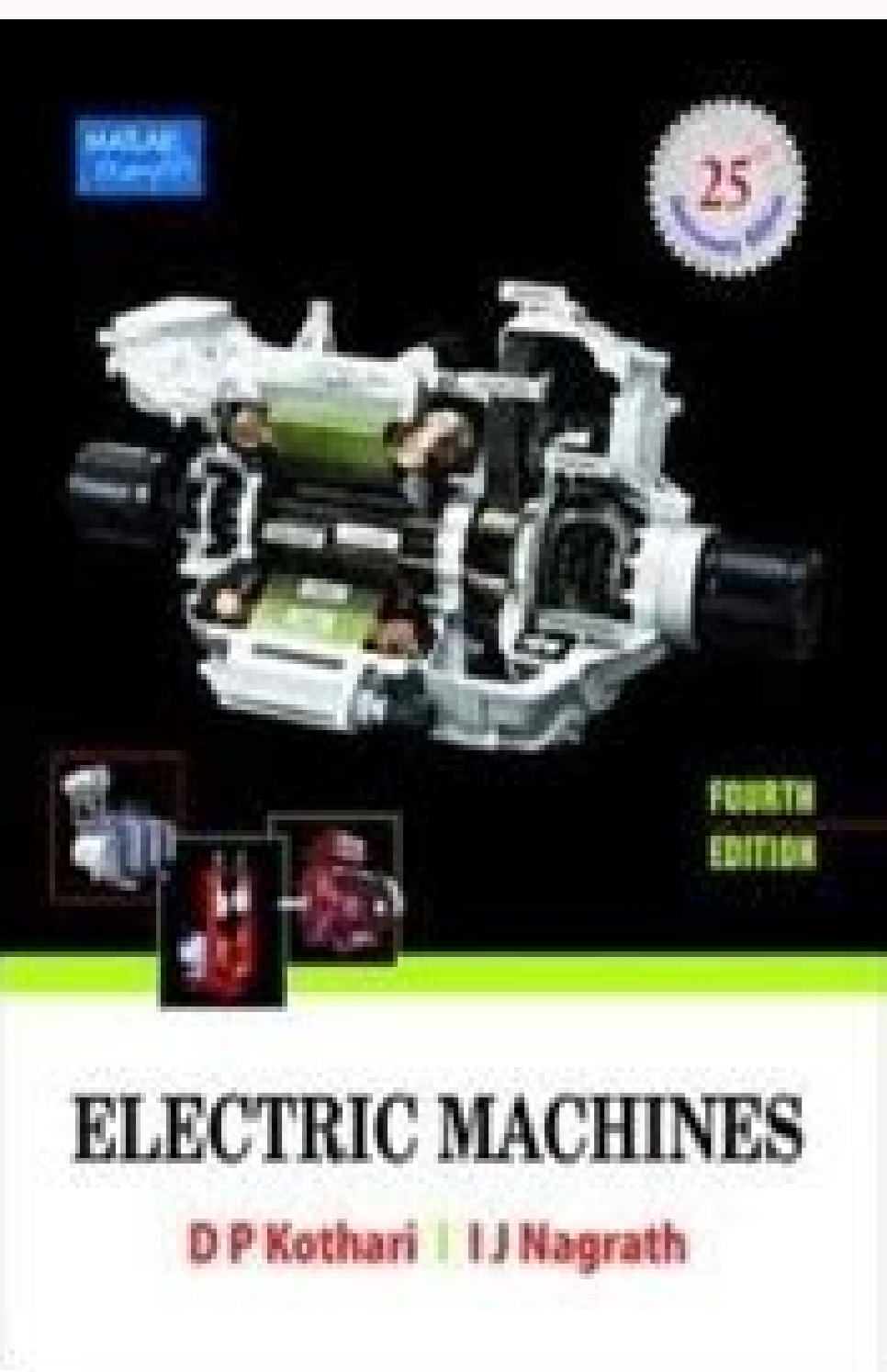
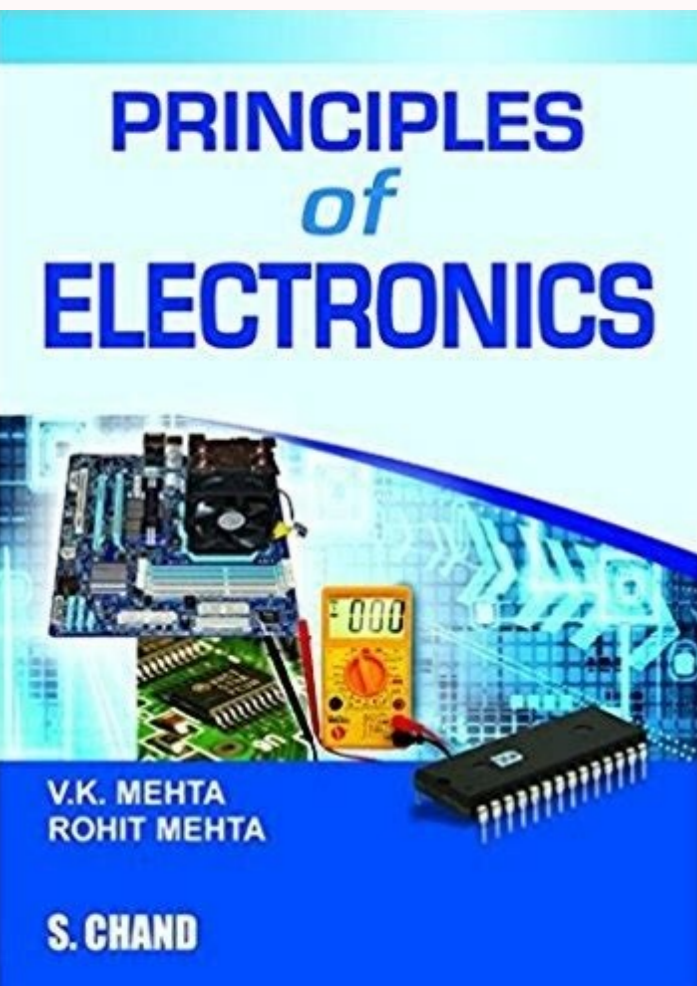
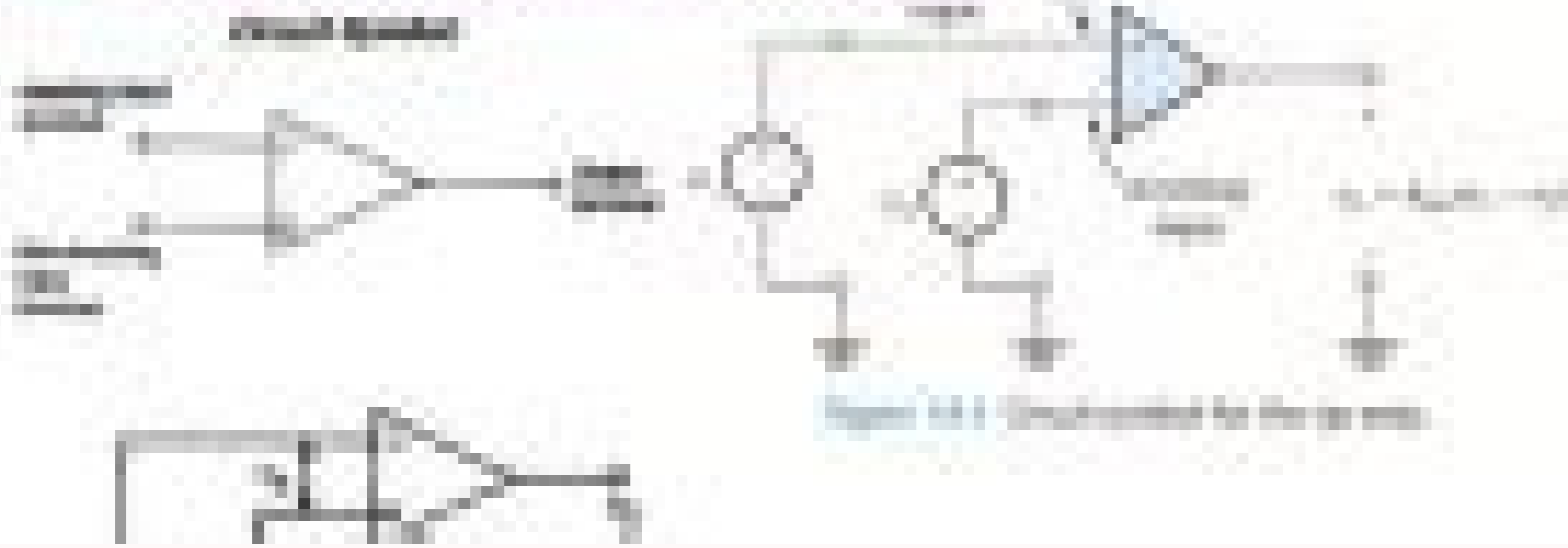


II - Operational Amplifier



Operational Amplifier (Op-Amp)

Operational amplifier (Op-amp) is made of many transistors, diodes, resistors and capacitors



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Salient Features: Approach modular and exposition of subject matter through illustrations Block-diagrams and circuit diagrams used aptly to enhance understanding Pedagogy count and features: Solved Examples MCQs Review Questions Problems DiagramTable of Content: Semiconductors Diodes and Applications Bipolar Junction Transistor (BJT) and Other Devices Op-Amp Feedback Amplifiers and Oscillators Regulated Power Supplies Digital Logic Digital Electronics Boolean Algebra and Combinational Circuits Flip-Flops Registers and Counters Digital to Analog (D/A) and Analog to Digital (A/D) Converters Transducers Basics of Computers Clock and Timing Circuits Communication Engineering Measuring InstrumentsEngineering & Technology Book Binding : Paperback Language : English Number of Pages :420 pages ISBN - 10 :9332901589Basic Electronics Published On :14-Jul Resource: Sciences, Technology & Medicine, Engineering &

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Understand characteristics, operation and applications of the diodes, bipolar junction transistors, field effect transistors, SCRs and operational amplifiers in electronic circuits. * Understand different number systems and working of fundamental building blocks of digital circuits. * Understand the principle of basic communication system and mobile phones. MODULE-1 Semiconductor Diodes and Applications: p-n junction diode, Equivalent circuit of diode, Zener Diode, Zener diode as a voltage regulator, Rectification-Half wave rectifier, Full wave rectifier, Bridge rectifier, Capacitor filter circuit (2.2.2.3,2.4 of Text 1). Photo diode, LED, Photo coupler. (2.7.4, 2.7.5, 2.7.6 of Text 1). 78XX series and 7805 Fixed IC voltage regulator (8.4.4 and 8.4.5 of Text 1). (RBT Levels : L1, L2 & L3) Click here to download Module-1 MODULE-2 FET and SCR: Introduction, JFET: Construction and operation, JFET Drain Characteristics and Parameters, JFET Transfer Characteristic, Square law expression for I_d, Input resistance, MOSFET: Depletion and Enhancement type MOSFET- Construction, Operation, Characteristics and Symbols, (refer 7.1, 7.2, 7.4, 7.5 of Text 2), CMOS (4.5 of Text 1). Silicon Controlled Rectifier (SCR) — Two-transistor model, Switching action, Characteristics, Phase control application (refer 3.4 upto 3.4.5 of Text 1). (RBT Levels : L1, L2 & L3) Click here to download Module-2 MODULE-3 Operational Amplifiers and Applications: Introduction to Op-Amp, Op-Amp Input Modes, Op-Amp Parameters-CMRR, Input Offset Voltage and Current, Input Bias Current, Input and Output Impedance, Slew Rate (12.1, 12.2 of Text2). Applications of Op-Amp - Inverting amplifier, Non-Inverting amplifier, Summer, Voltage follower, Integrator, Differentiator, Comparator (6.2 of Text 1). (RBT Levels : L1, L2 & L3) Click here to download Module-3 MODULE-4 BJT Applications, Feedback Amplifiers and Oscillators: BJT as an amplifier, BJT as a switch, Transistor switch circuit to switch ON/OFF an LED and a lamp ina power circuit using a relay (refer 4.4 and 4.5 of Text 2). Feedback Amplifiers — Principle, Properties and advantages of Negative Feedback, Types of feedback Voltage series feedback, Gain stability with feedback (7.1-7.3 of Text 1). Oscillators — Barkhausen's criteria for oscillation, RC Phase Shift oscillator, Wien Bridge oscillator (7.7-7.9 of Text 1). IC 555 Timer and Astable Oscillator using IC 555 (17.2 and 17.3 of Text 1). (RBT Levels : L1, L2 & L3) Click here to download Module-4 MODULE-5 Digital Electronics Fundamentals: Difference between analog and digital signals, Number System-Binary, Hexadecimal, Conversion- Decimal to binary, Hexadecimal to decimal and vice-versa, Boolean algebra, Basic and Universal Gates, Half and Full adder, Multiplexer, Decoder, SR and JK flip-flops, Shift register, 3 bit Ripple Counter (refer 10.1-10.7 of Text 1). Basic Communication system, Principle of operations of Mobile phone (refer 18.2 and 18.18 of Text 1). (RBT Levels : L1 & L2) Course Outcomes: After studying this course, students will be able to: € Describe the operation of diodes, BJT, FET and Operational Amplifiers. € Design and explain the construction of rectifiers, regulators, amplifiers and oscillators. € Describe general operating principles of SCRs and its application. e Explain the working and design of Fixed voltage IC regulator using 7805 and Astable oscillator using Timer IC 555. e Explain the different number system and their conversions and construct simple combinational and sequential logic circuits using Flip-Flops. € Describe the basic principle of operation of communication system and mobile phones. Proposed Activities to be carried out for 10 marks of CIE: Students should construct and make the demo of the following circuits in a group of 3/4 students: 3. 4. 5 +5V power supply unit using Bridge rectifier, Capacitor filter and IC 7805. To switch on/off an LED using a Diode in forward/reverse bias using a battery cell. Transistor switch circuit to operate a relay which switches off/on an LED. IC 741 Integrator circuit/Comparator circuit. To operate a small loud speaker by generating oscillations using IC 555. Question paper pattern: Examination will be conducted for 100 marks with question paper containing 10 full questions, each of 20 marks. Each full question can have a maximum of 4 sub questions. There will be 2 full questions from each module covering all the topics of the module. Students will have to answer 5 full questions, selecting one full question from each module. The total marks will be proportionally reduced to 60 marks as SEE marks is 60. Textbooks: D.P.Kothari, I.J.Nagarath, "Basic Electronics", 2nd edn, Mc Graw Hill, 2018. 2. Thomas L. Floyd, "Electronic Devices", Pearson Education, 9th edition, Reference Books: 1. D.P.Kothari, I.J.Nagarath, "Basic Electronics", 1st edn, Mc Graw Hill, 2. Boylestad, Nashelskey, "Electronic Devices and Circuit Theory", Pearson Education, 9th Edition, 2007/1 1th edition, 2013. 3. David A. Bell, "Electronic Devices and Circuits", Oxford University Press, 5th Edition, 2008. 4. Muhammad H. Rashid, "Electronics Devices and Circuits", Cengage Learning, 2014.

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