[R J Smith R C Dorf Circuits Devices And Systems 5th Ed John Wiley 1992 Rapidshare](#)

## EC-101  ELECTRICAL SCIENCES  3-1-0-8

*Circuit Analysis Techniques:* Circuit elements, Simple RL and RC Circuits, Ohm's law, Kirchoff's laws, Nodal Analysis, Mesh Analysis, Linearity and Superposition, Source Transformations, Thevnin's and Norton's Theorems, Sinusoidal Forcing Function, Complex Forcing Function, Phasor Relationship for R, L and C, Impedance and Admittance, Phasor Diagrams, Response as a function of ω.

*Diodes and Transistors:* Semiconductor Diode, Zener Diodes, Rectifier Circuits, Wave Shaping Circuits, Bipolar Junction Transistors, Field-Effect Transistors, Transistor Biasing, Transistor Small Signal Analysis, Transistor Amplifiers.

*Operational Amplifiers:* Op-amp Equivalent Circuit, Practical Op-amp Circuits, DC Offset, Constant Gain Multiplier, Voltage Summing, Voltage Buffer, Controlled Sources, Instrumentation Circuits, Active Filters and Oscillators.

*Logic Gates and Combinational Circuits:* Number Systems and Codes, Logic Gates, Boolean Theorems, DeMogan's Theorems, Sum-of Product Form, Algebraic Simplification, Karnaugh Map Method, Parity Generator and Checker, Inhibit Circuits.

*Sequential Circuits and Arithmetic Circuits:* NAND and NOR gate Latches, S-C Flip-Flop, J-K Flip-Flop, D Flip-Flop, Data Storage, Serial Data Transfer, Frequency Division and Counting, Binary Addition, 2's Complement System, Full Adder, BCD Adder.

*Transformers and AC Machines:* Ideal Transformer, Circuit Model of Transformer, Determination of Parameters of Circuit Model of Transformer, Voltage Regulation, Efficiency, Three Phase Induction Motor, Three Phase Synchronous Generator, Induced Voltage, Electromagnetic Torque, Equivalent Circuit of Three Phase Induction Motor, Torque Speed Characteristic.

*Fractional-kW Motors and DC Machines:* Single Phase Induction Motors, Characteristics and Typical Applications, Stepper Motors, Construction Features, Methods of Operations, DC Generator and DC Motor Analysis, Methods of Excitation, Speed Torque Characteristics and Speed Control of DC Machines.

*Electrical Engineering Systems:* Transmission and Distribution Power Systems, Open-loop and Closed-loop Control Systems, Satellite Control System, Communication System, Amplitude Modulation and Demodulation, Speech Analysis and Synthesis Systems.

### Texts/Reference:

1.  W.H. Hayt and J.E. Kemmerly: Engineering Circuit Analysis; McGraw-Hill, 1993.
2.  R.J. Smith and R.C. Dorf: Circuits, Devices and Systems; John Wiley & Sons, 1992.
3.  R.L. Boylestad and L. Nasheisky: Electronic Devices and Circuit Theory; PHI, 6e, 2001.
4.  R.J. Tocci: Digital Systems; PHI, 6e, 2001.

5.  V. Del Toro: Electrical Engineering Fundamentals; PHI, 1994.

## EC-102  BASIC ELECTRONICS LABORATORY  0-0-4-4

Experiments using diodes and bipolar junction transistor (BJT): design and analysis of half-wave and full-wave rectifiers, clipping circuits and Zener regulators, BJT characteristics and BJT amplifiers; experiments using operational amplifiers (op-amps): summing amplifier, comparator, precision rectifier, astable and monostable multivibrators and oscillators; experiments using logic gates: combinational circuits such as staircase switch, majority detector, equality detector, multiplexer and demultiplexer; experiments using flip-flops: sequential circuits such as non-overlapping pulse generator, ripple counter, synchronous counter, pulse counter and numerical display.

### References:

1.  A. P. Malvino, Electronic Principles. New Delhi: Tata McGraw-Hill, 1993.
2.  R. A. Gayakwad, Op-Amps and Linear Integrated Circuits. New Delhi: Prentice Hall of India, 2002.

3.  R.J. Tocci: Digital Systems; PHI, 6e, 2001.

## EC-200  SEMICONDUCTOR DEVICES AND CIRCUITS  3-0-0-6

Energy bands; semiconductors; charge carriers: electrons and holes, effective mass, doping. Carrier concentration: Fermi level, temperature dependence of carrier concentration. Drift and diffusion of

Circuits, Devices and Systems: A First Course in Electrical Engineering, 5th Edition [Ralph J. Smith, Richard C. Dorf] on Amazon.com. ... Calvin: Institutes of the Christian Religion (2 Volume Set) by John Calvin Hardcover $74.18 ... Hardcover: 880 pages; Publisher: Wiley; 5 edition (October 3, 1991); Language: English .... 0 free r j smith r c dorf circuits devices and systems 5th ed john wiley 1992 rapidshare - john. and a great selection of related books, art and collectibles available .... 9TH EDITION Introduction to Electric Circuits James A. Svoboda Clarkson ... of Circuits, Devices and Systems (with Ralph Smith), fifth edition (Wiley, 1992). ... RL AND RC CIRCUITS 14 LAPLACE TRANSFORM 16 FILTER CIRCUITS 13 14 15 16 .... 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