Digital Electronics for GTU (IV-EE-2013 course)

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Technical Publications 0. Softcover. Book Condition: New. First edition. Number Systems : Decimal, Binary, Octal, and hexa-decimal number systems, Binary arithmetic. Number base conversion, Complements. Codes : Binary code, Excess-3 code, Gray code, Error detection and correction codes. Logic Families : Positive logic and negative logic, AND, OR, NOT, NAND, NOR, X-OR gate, Inhibit circuit, Significance and type like TTL, CMOS, Interface with different logic families, Application relevant information, Electrical characteristics. Boolean Algebra : Introduction, Logic operators, Postulates and theorems, Properties -Product of sums and sum of products - Karnaugh map method - Two, Three, Four, Five variable K-maps, Converting boolean expressions to logic and vice versa, NAND and NOR implementation - Don?t-care conditions - The tabulation method. Combinational Logic Circuit : Half and full adder - Half and full subtracter - Binary parallel adder - BCD adder, Decimal adder - Magnitude comparator - Encoders and decoders - Multiplexers - De-multiplexer. Flip Flops and Sequential Logic and Circuits : Basic difference between combinational logic and sequential logic - Flip-flops like S-R , J-K, D, Master slave - Triggering of (level and edge) flip-flops - Asynchronous and synchronous inputs - Excitation tables for flip-flops. Ripple and synchronous counters - Registers -...

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Reviews