



# Digital Electronics: A Practical Approach (8th Edition)

By Kleitz, William

Prentice Hall, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: (NOTE:Each chapter begins with an Outline, Objectives, and an Introduction, and concludes with a Summary, Glossary, Problems, Schematic Interpretation Problems, Electronics Workbench Exercises, and Answers to Review Questions.) 1. Number Systems and Codes. Digital Versus Analog. Digital Representations of Analog Quantities. Decimal Numbering System (Base 10). Binary Numbering System (Base 2). Decimalto-Binary Conversion. Octal Numbering System (Base 8). Octal Conversions. Hexadecimal Numbering System (Base 16). Hexadecimal Conversions. Binary-Coded-Decimal System. Comparison of Numbering Systems. The ASCII Code. Applications of the Numbering Systems. 2. Digital Electronic Signals and Switches. Digital Signals. Clock Waveform Timing. Serial Representation. Parallel Representation. Switches in Electronic Circuits. A Relay as a Switch. A Diode as a Switch. A Transistor as a Switch. The TTL Integrated Circuit. MultiSIM Simulation of Switching Circuits. The CMOS Integrated Circuit. Surface-Mount Devices. 3. Basic Logic Gates. The AND Gate. The OR Gate. Timing Analysis. Enable and Disable Functions. Using IC Logic Gates. Introduction to Troubleshooting Techniques. The Inverter. The NAND Gate. The NOR Gate. Logic Gate Waveform Generation. Using IC Logic Gates. Summary of the Basic Logic Gates and IEEE/IEC Standard Logic Symbols. 4. Programmable...



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-- Dana Hintz

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