

DIGITAL SYSTEM DESIGN

UNIT I: Introduction to Number Systems and Boolean Algebra

Digital and Analog Basic Concepts, Some history of Digital Systems-Introduction to number systems , Binary numbers , Number Base Conversion-Complement Codes, Binary Arithmetic , Binary codes: BCD, Weighted codes -2421,8421,gray code-Binary Logic functions, Boolean Algebra, Theorems and Properties of Boolean Algebra

Digital Systems and Binary Numbers

Digital age and information age

Digital computers

- General purposes
- Many scientific, industrial and commercial applications

Digital systems

- Telephone switching exchanges
- Digital camera
- Electronic calculators, PDA's
- Digital TV

Discrete information-processing systems

- Manipulate discrete elements of information

Digital System Design 1 E

Tobias Bleicker



Digital System Design 1 E:

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