CE102 Digital Logic Design

Week-1 (Part-1 Binary Systems)

Spring Semester, 2021-2022

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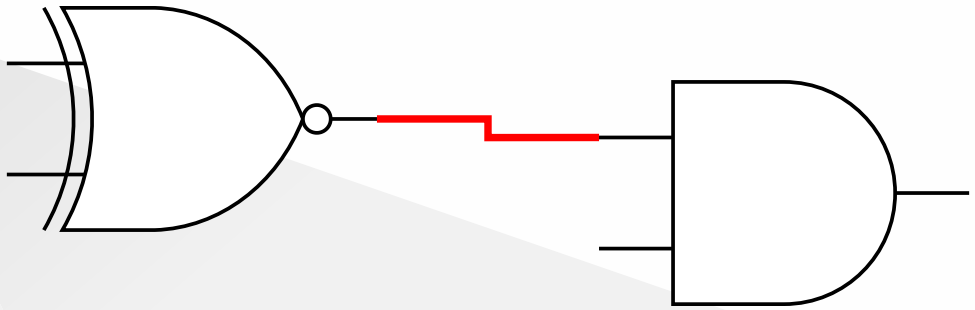
Binary Systems



Binary Systems

- Analog Vs Digital
- Digital Systems Binary numbers
- Number base conversions
  Compliments
- Octal and Hexadecimal Numbers
  - Signed Binary Numbers

Analog and Digital

- Analog information is made up of a continuum of - values within a given range.
- At its most basic, digital information can - assume only one of two possible values: one/- zero, on/off, high/low, true/false, etc.
- Digital Information is less susceptible to - noise than analog information • Exact - voltage values are not important, only their - class (1 or 0)
- The complexity of operations is reduced, thus - it is easier to implement them with high - accuracy in digital form.

References

$$End - Of - Week - 1 - Module$$