

Projects and Laboratory on Communication Systems

Inventory Management System Project Report

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June 18, 2022

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CHAPTER 1

ChapterName

1.1 Section

We can insert and reference figures and stuff, look at the figure 1.1-A.

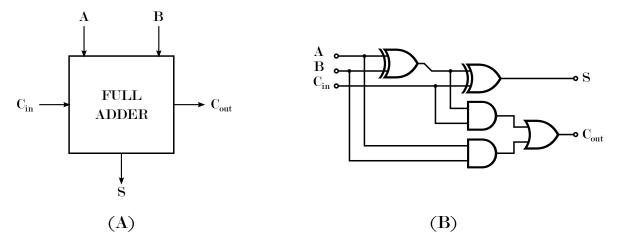


Figure 1.1: This is a caption for the figure

We can also make and reference tables, look at the table 1.1.

A B Cin	S	Cout
0 0 0	0	0
$1 \ 0 \ 0$	1	0
$0\ 1\ 0$	1	0
110	0	1
$0\ 0\ 1$	1	0
$1\ 0\ 1$	0	1
0 1 1	0	1
111	1	1

Table 1.1: Truth table of a 1-bit full adder.

We can also write equations and stuff, like equations $1.1~\mathrm{and}~1.2$

$$S = A \oplus B \oplus C_{in} \tag{1.1}$$

$$C_{out} = AB + C_{in}(A \oplus B) \tag{1.2}$$

1.1.1 SubSection

We can read data from a file with verbatiminput:

```
Reference layout = planar_full_adder.svg
Number of layers = 1
Total number of magnets = 150
Clock zones = 5
Width [nm] = 2080
Number of vertical magnets =
Height [nm] = 1300
Area [nm2] = 2704000
Area [um2] = 2.704000
######### Cu wire case ###########
Total power consumption [W] = .00001053180000000000
######## Ta wire case ###########
Wire 1 resistance [Ohm] = 81.12642857142857142857
Wire 2 resistance [Ohm] = 101.36904761904761904761
Power consumption for one layer [W] = .00002919927619047619
Total power consumption [W] = .00005839855238095238
```

Beryyy info:

- Delay = 3 clock cycles;
- Area = $2.7 \ \mu m^2$;
- Power = $10.53 \ \mu W$.

1.2 Another Section

This is another section with stuff.

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