

Solution

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1 Part A

1.1 Truth Table

A	B	C	G
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Table 1: Part A Truth Table

1.2 Equation

$$G = \bar{A}B + \bar{A}C + BC + A\bar{B}\bar{C}$$

G	D	F
0	0	1
0	1	1
1	0	0
1	1	1

Table 2: Part B Truth Table

2 Part B

2.1 Truth Table

2.2 Equation

$$F = \bar{G} + D$$

3 Part C

3.1 Schematic

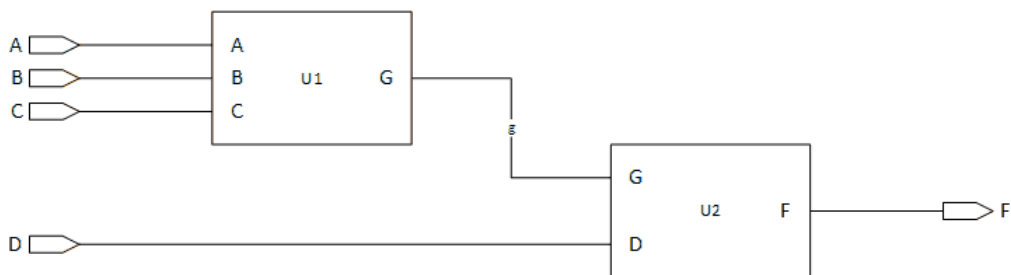


Figure 1: PartA and PartB Connected