

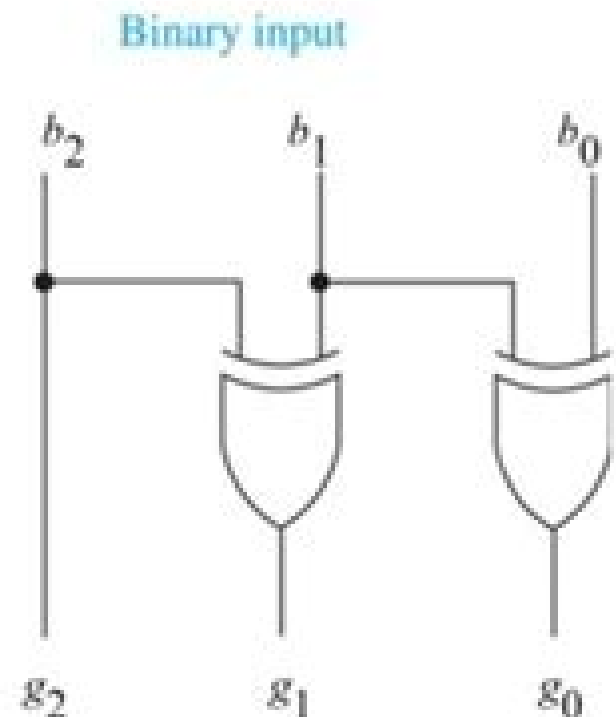
Textbook Example 6.28: Design a 3-Bit Binary to Gray Code Converter

b_2	b_1	b_0	g_2	g_1	g_0
0	0	0	0	0	0
0	0	1	0	0	1
0	1	0	0	1	1
0	1	1	0	1	0
1	0	0	1	1	0
1	0	1	1	1	1
1	1	0	1	0	1
1	1	1	1	0	0

Truth table

$$\begin{aligned}g_2 &= b_2 \\g_1 &= b_1 \bar{b}_2 + \bar{b}_1 b_2 \\&= b_1 \oplus b_2 \\g_0 &= b_0 \bar{b}_1 + \bar{b}_0 b_1 \\&= b_0 \oplus b_1\end{aligned}$$

Equations from
truth table



Circuit

The pattern seen here in the equations and circuit extends to an arbitrary number of bits.

Design Circuit Convert Binary To Gray Code

Matthew Mandl



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