

Analog and Digital Electronics Lab (EC13203)

CS-A1

Lab-5

**(Design of Binary to Gray Code and
Gray to binary code convertor)**

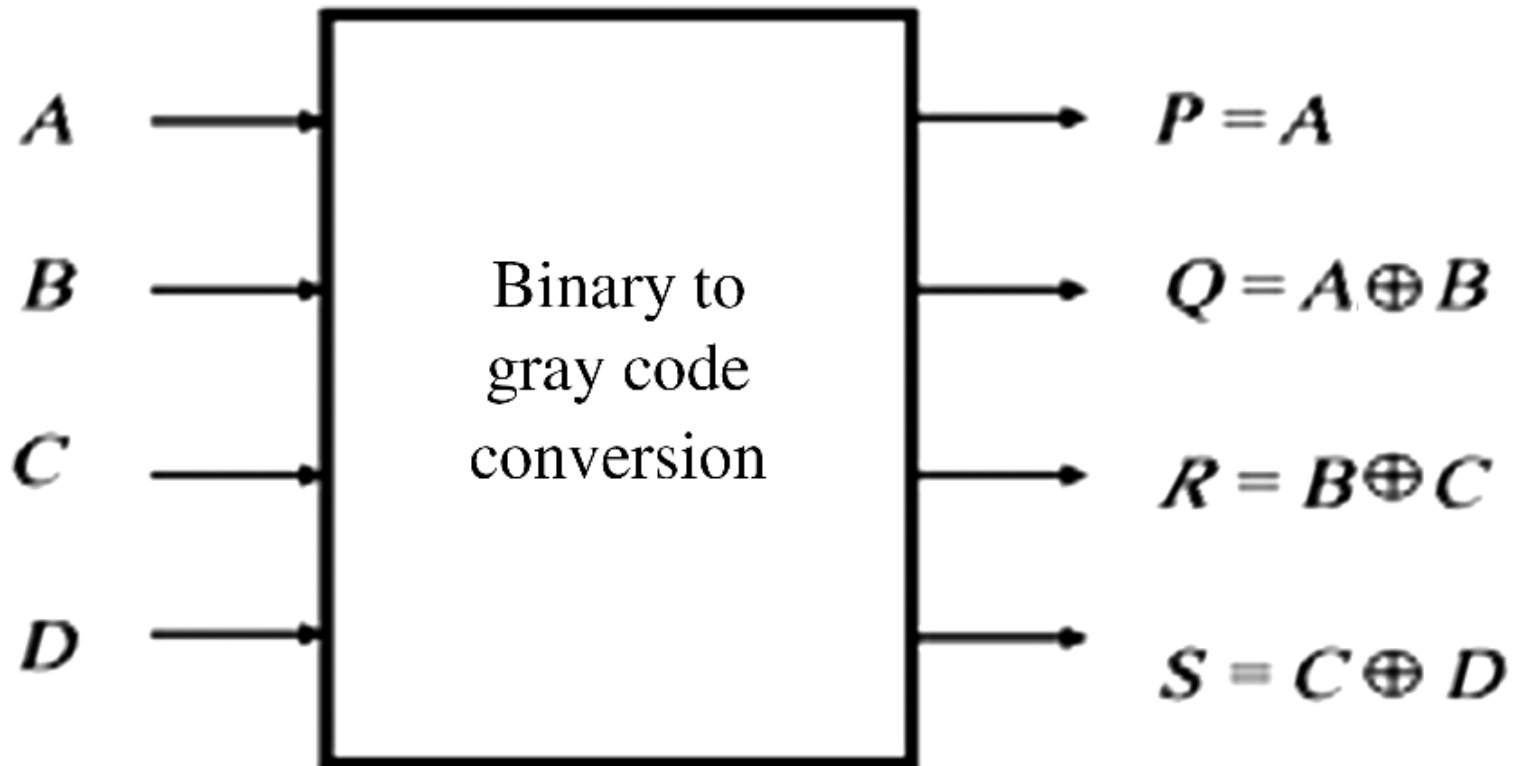
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Binary to Gray Code Convertor

Process of Conversion



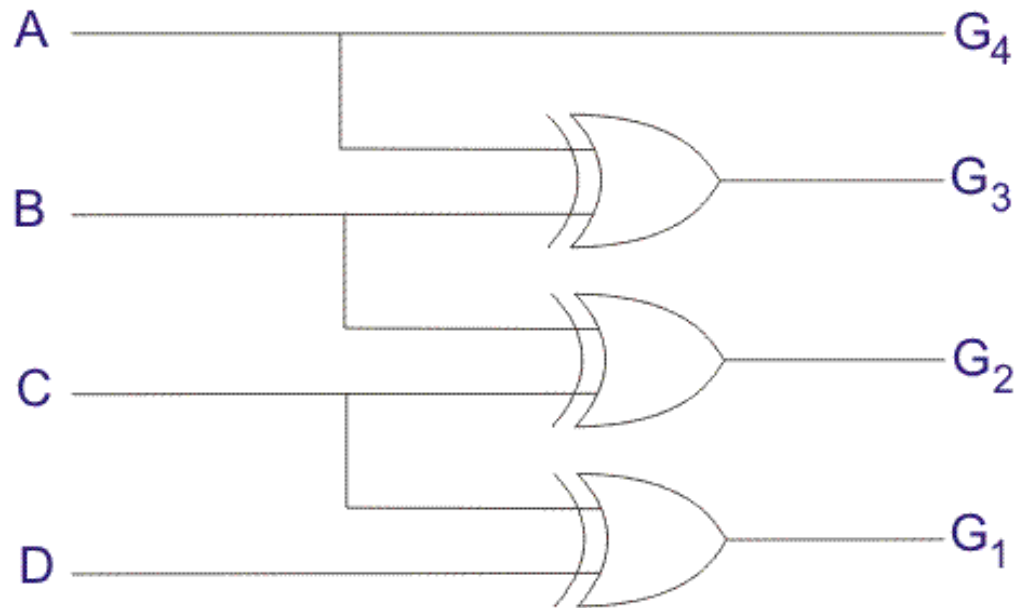
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Truth Table:

BINARY INPUT				GRAY CODE OUTPUT			
B3	B2	B1	B0	G3	G2	G1	G0
0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	1
0	0	1	0	0	0	1	1
0	0	1	1	0	0	1	0
0	1	0	0	0	1	1	0
0	1	0	1	0	1	1	1
0	1	1	0	0	1	0	1
0	1	1	1	0	1	0	0
1	0	0	0	1	1	0	0
1	0	0	1	1	1	0	1
1	0	1	0	1	1	1	1
1	0	1	1	1	1	1	0
1	1	0	0	1	0	1	0
1	1	0	1	1	0	1	1
1	1	1	0	1	0	0	1
1	1	1	1	1	0	0	0

Cont....

Logic Diagram



Logic Circuit for Binary to Gray Code Converter

Gray to Binary Code Converter

Process of Conversion

