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

b_2	b_1	b_0	82	81	80
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

$$g_2 = b_2$$

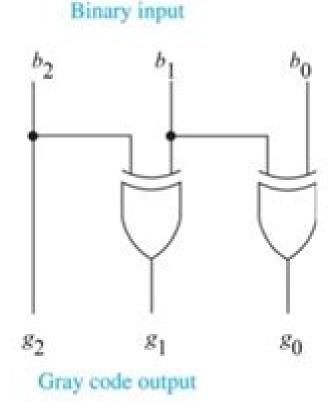
$$g_1 = b_1 \overline{b}_2 + \overline{b}_1 b_2$$

$$= b_1 \oplus b_2$$

$$g_0 = b_0 \overline{b}_1 + \overline{b}_0 b_1$$

$$= b_0 \oplus b_1$$

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

Christopher E. Strangio

Design Circuit Convert Binary To Gray Code:

SWITCHING THEORY AND LOGIC DESIGN, Third Edition KUMAR, A. ANAND, 2016-07-18 This comprehensive text on switching theory and logic design is designed for the undergraduate students of electronics and communication engineering electrical and electronics engineering electronics and computers engineering electronics and instrumentation engineering telecommunication engineering computer science and engineering and information technology It will also be useful to M Sc electronics M Sc computers AMIE IETE and diploma students Written in a student friendly style this book now in its Third Edition provides an in depth knowledge of switching theory and the design techniques of digital circuits Striking a balance between theory and practice it covers topics ranging from number systems binary codes logic gates and Boolean algebra to minimization using K maps and tabular method design of combinational logic circuits synchronous and asynchronous sequential circuits and algorithmic state machines. The book discusses threshold gates and programmable logic devices PLDs In addition it elaborates on flip flops and shift registers Each chapter includes several fully worked out examples so that the students get a thorough grounding in related design concepts Short questions with answers review questions fill in the blanks multiple choice questions and problems are provided at the end of each chapter These help the students test their level of understanding of the subject and prepare for examinations confidently NEW TO THIS EDITION VERILOG programs at the end of each chapter SWITCHING THEORY AND LOGIC DESIGN A. ANAND KUMAR, 2014-03-06 This comprehensive text on switching theory and logic design is designed for the undergraduate students of electronics and communication engineering electrical and electronics engineering electronics and instrumentation engineering telecommunication engineering computer science and engineering and information technology It will also be useful to AMIE IETE and diploma students Written in a student friendly style this book now in its Second Edition provides an in depth knowledge of switching theory and the design techniques of digital circuits Striking a balance between theory and practice it covers topics ranging from number systems binary codes logic gates and Boolean algebra to minimization using K maps and tabular method design of combinational logic circuits synchronous and asynchronous sequential circuits and algorithmic state machines The book discusses threshold gates and programmable logic devices PLDs In addition it elaborates on flip flops and shift registers Each chapter includes several fully worked out examples so that the students get a thorough grounding in related design concepts Short questions with answers review questions fill in the blanks multiple choice questions and problems are provided at the end of each chapter These help the students test their level of understanding of the subject and prepare for examinations confidently NEW TO THIS EDITION VHDL programs at the end of each chapter Complete answers with figures Several new problems with answers **FUNDAMENTALS OF** DIGITAL CIRCUITS, Fourth Edition KUMAR, A. ANAND, 2016-07-18 The Fourth edition of this well received text continues to provide coherent and comprehensive coverage of digital circuits It is designed for the undergraduate students pursuing

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