Show All Solutions

Rosen, Discrete Mathematics and Its Applications, 6th edition
Extra Examples

Section 12.3—Finite-State Machines with Output

Extra Examples — *Page references correspond to locations of Extra Examples icons in the textbook.*

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p.807, icon at Example 6

#1. Construct a deterministic finite-state automaton that recognizes the set of all bit strings such that the first bit is 0 and all remaining bits are 1's.

See Solution

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p.807, icon at Example 6

#2. Construct a deterministic finite-state automaton that recognizes the set of all bit strings that contain exactly one 0.

See Solution

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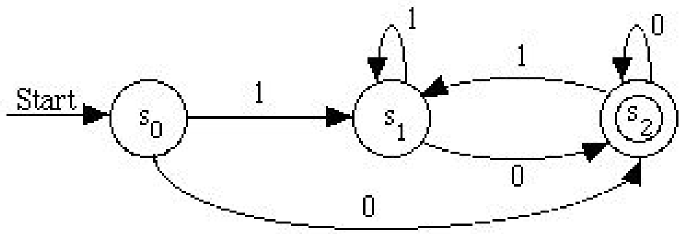
p.807, icon at Example 6

#3. Determine the set of bit strings recognized by the following deterministic finite-state automaton.



See Solution

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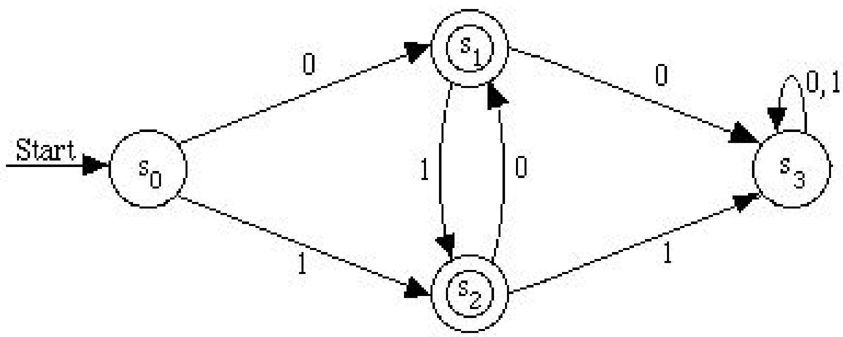
p.807, icon at Example 6

#4. Determine the set of bit strings recognized by the following deterministic finite-state automaton.



See Solution

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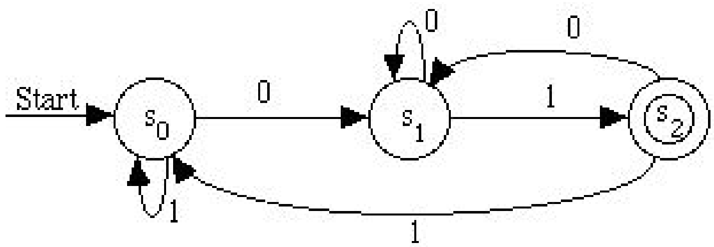
p.807, icon at Example 6

#5. Determine the set of bit strings recognized by the following deterministic finite-state automaton.



See Solution