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If w has an odd
number of 1's, then so
does z . By the inductive
hypothesis, $\hat{\varphi}(A, z) =$
 B , and the transitions

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of the DFA tell us $\hat{\phi}(A, w) = B$. Thus, in this case, $\hat{\phi}(A, w) = A$ if and only if w has an even number of 1's.
Case 2: $a = 1$. If w has an even number of 1's, then z has an odd number of 1's.

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3.1.1 (a) The simplest
approach is to consider
those strings in which
the first a precedes the
first b separately from
those where the opposite
occurs.

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If w has an odd number of 1's, then so does z .

By the inductive hypothesis, $\hat{\delta}(A, z) = B$, and the transitions of the DFA tell us $\hat{\delta}$

$\hat{\delta}(A, w) = B$. Thus, in this case, $\hat{\delta}(A, w) =$

A if and only if w has an even number of 1's.

Case 2: $a = 1$. If w has an even number of 1's, then

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zhas an odd number of
1's.

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Section 2.2 Exercise

2.2.1(a) States

correspond to the eight combinations of switch positions, and also must indicate whether the previous roll came out at D, i.e., whether the

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4.1.1 (c) Let it be
pumping the lemma
standing (note that this
is not relevant to what is
a local variable in the
definition of L
language). Choose
 $w = 10^n$. Then when we
write w and xyz , we
know that 0 , so we have

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to choose untidy w.

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3.2 Exercise 3.2.1 Part

(a): The following are
all R_0 expressions; we
list only the subscripts.

$R_{11} = \emptyset + 1$; $R_{12} = 0$;

$R_{13} = \text{phi}$; $R_{21} = 1$;

$R_{22} = \emptyset$; $R_{23} = 0$; $R_{31} =$

phi ; $R_{32} = 1$; $R_{33} =$

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Σ^+ . Part (b): Here all expression names are $R(1)$; we again list only the subscripts.

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7.2 Exercise 7.2.1(a) Let n be the pumping-lemma constant and consider string $z = a^n b^{n+1} c^{n+2}$. We may write $z = uvwxy$, where v and x , may be "pumped," and $|vwx| \leq n$. If vwx does not have c 's, then $|uv^3wx^3y|$ has at least $n+2$ a 's or b 's, and thus could not be in the language.

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Using Exercise 2.2.2, $\hat{\delta}(q_0, x^k) = \hat{\delta}(\hat{\delta}(q_0, x^{k-1}), x) = \hat{\delta}$

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$\hat{\text{hat}}(q, f, x)$ [by the inductive hypothesis] = q, f [by (a)]. Exercise 2.2.10. The automaton tells whether the number of 1's seen is even (state A) or odd (state B), accepting in the latter case.

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abstract computing
devices, or "machines" n
Automaton = an abstract
computing device n

Note: A "device" need
not even be a physical
hardware! n A

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1.1.3 Automata theory

Automata Theory deals with definitions and properties of different types of computation models. Examples of such models are: Finite Automata. These are used in text processing, compilers, and hardware design. Context-Free Grammars. These are

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programming lan-
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correspond to the eight combinations of switch positions, and also must indicate whether the previous roll came out at D, i.e., whether the previous input was accepted. Let 0 represent a position to

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the left (as in the
diagram) and 1 a
position ...

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