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Chapter 3, Problem 19P

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Step-by-step solution

Step 1 of 4

Recursive definition defined over $\{a, b\}$ are as follows,

i) Recursive definition for EVENSTRING

Rule 1: ϵ is in EVENSTRING.

Rule 2: aa, ab, ba, bb are the strings in EVENSTRING

Rule 3: If w and x are strings in EVENSTRING then xw or wx is EVENSTRING.

Rule 4: If w is in EVENSTRING, then waa, wab, wba, wbb are also EVENSTRING.

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Step 2 of 4

ii) Recursive definition for ODDSTRING

Rule 1: a, b are strings in ODDSTRING

Rule 2: If x is a string in ODDSTRING then axa, bxb, axb, bxa are all strings in ODDSTRING.

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Step 3 of 4

iii) Recursive definition for AA

Rule 1: aa is the string in AA

Rule 2: If x is in AA, then so xa, xb , and bx are all strings in AA.

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Step 4 of 4

iv) Recursive definition for NOTAA

Rule 1: ϵ, a, b are strings in NOTAA

Rule 2: If x is in NOTAA, then so xb, wb, xba are in NOTAA

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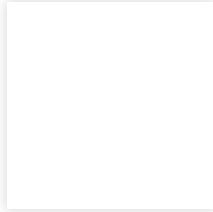
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Recommended solutions for you in Chapter 3

Chapter 3, Solution 10P

By rule 2: is in
POLYNOMIAL By rule 3: is
in POLYNOMIAL By rule 3:
is in POLYNOMIAL By rule
3: is in POLYNOMIAL By
rule...

[See solution](#)



Chapter 3, Solution 5P

Recursive definitions for any set can be defined by
the following three steps, 1. Specify the base case
as basic words in the...

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