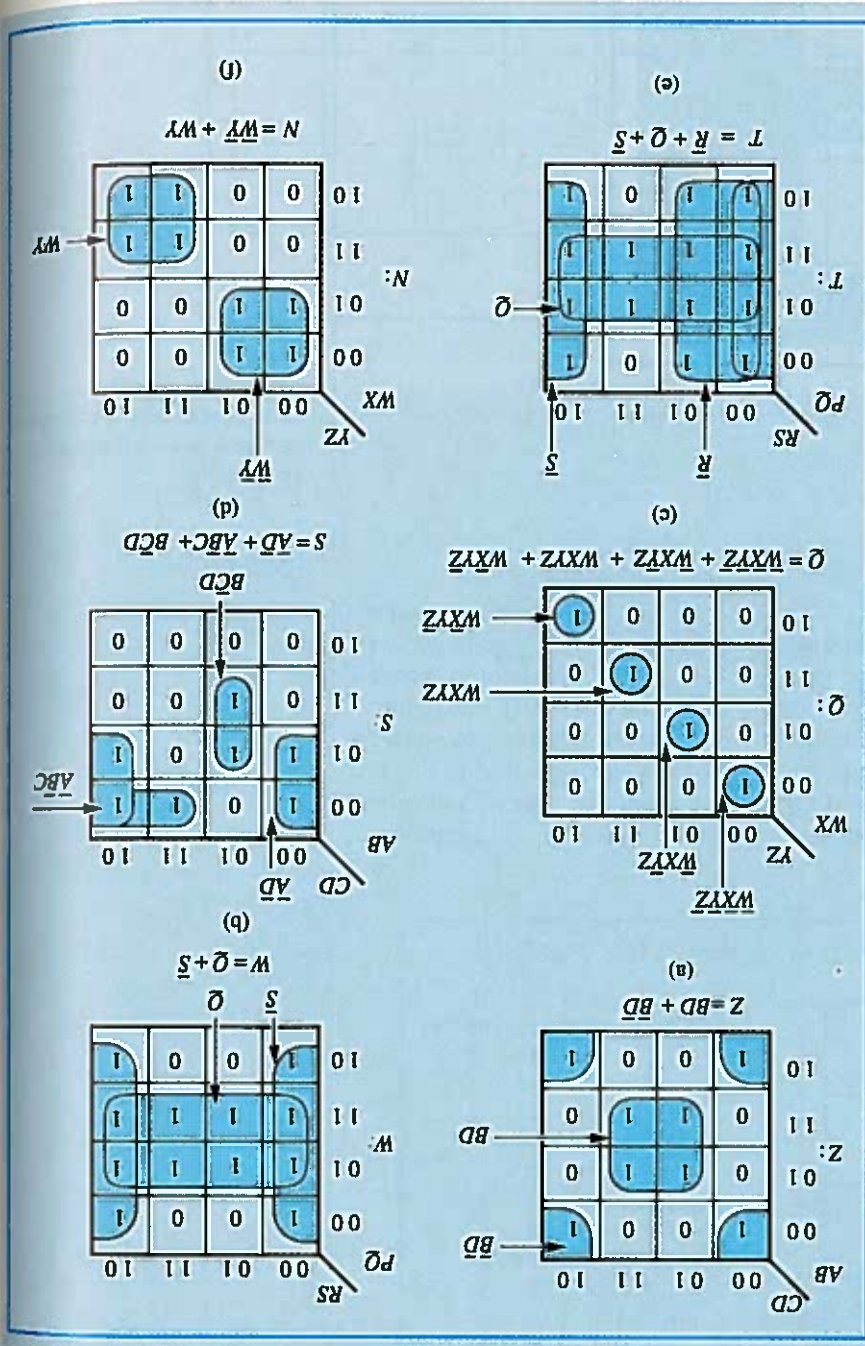


Observe that the larger the group of adjacent 1-cells, the smaller its corresponding term in the final logic equation. The following example illustrates various other four-variable K-map configurations and the simplified logic equations obtained from them.

EXAMPLE 3-15

Figure 3-59
Examples of four-variable K-map
simplification.



In Section 3-3 we learned that it was possible to obtain an unsimplified logic equation from a truth table in one of two forms—sum-of-products or product-of-sums. This was done by obtaining the logical sum of the minterms (sum-of-products) for which the dependent variable was a 1 or

Product-of-sums simplification