

Example 4.5 The net shown in Fig. 3.4(d) can be reduced to the one shown in Fig. 4.7(a) after firing t_2 to remove the token in p_1 and then fusing t_1 and t_2 into t_{12} , and t_3 and t_4 into t_{34} . The net in Fig. 4.7(a) can then be reduced to the one shown in Fig. 4.7(b) after eliminating self-loop transition t_{12} and place p_3 . It is easy to see that both the nets shown in Fig. 3.4(d) and Fig. 4.7(b) are bounded and non-live (and non-reversible).

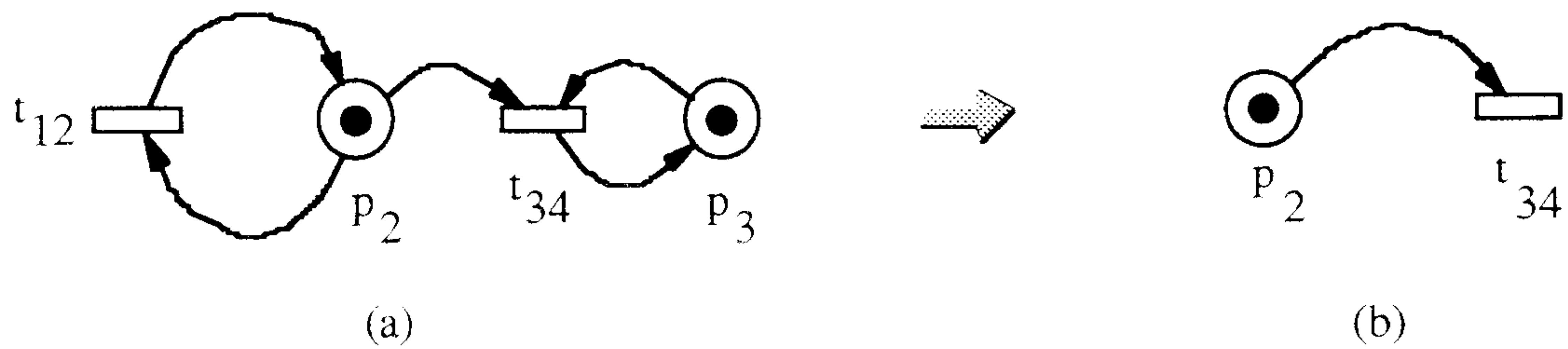


Fig. 4.7. Example 4.5: Illustration of reduction rules. The net shown in Fig. 3.4(d) is reduced to the two nets shown, where all the nets are bounded, nonlive, and nonreversible.

Example 4.6 The net shown in Fig. 4.8(a) can be reduced to the nets shown in Fig. 4.8(b) by using the transformations shown in Fig. 4.6. Note that all four nets shown in Fig. 4.8 are bounded and live.