11.8 The simplest way to implement serial/parallel multiplier with fixed coefficient is to choose between different number representation. We give the representation for the simplest implementation here and the block diagrams are left to the readers.

(a) $(0.011001)_2$

(b) $(0.111011)_2 = -(1.0000101)_2$, inverse the signs of input data and coefficient(see problem 11.7).

(c) $(1.011001)_2 = -(0.100111)_2 = -(0.10100\bar{1})_2$, inverse the signs of input data and coefficient (see problem 11.7) and use CSDC representation.

(d) $(1.011001)_2 = -(0.100101)_2$, inverse the signs of input data and coefficient.

(e) $(0.000001)_2$.

(f) $(1.000001)_2$.