ENCRYPTION

10-bit key

DECRYPTION

8-bit plaintext

8-bit plaintext

P10

Shift

IP

IP^{-1}

f_K

P8

K_1

K_1

f_K

SW

Shift

SW

f_K

P8

K_2

K_2

f_K

IP^{-1}

IP

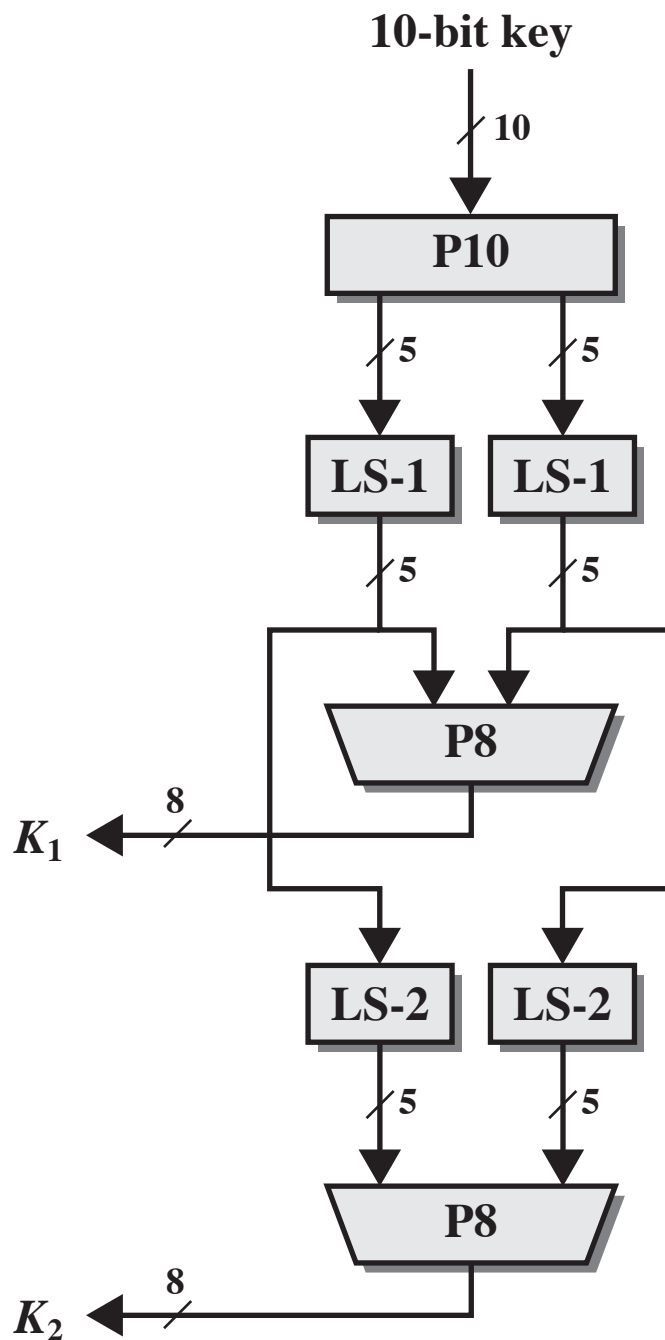**8-bit ciphertext**

8-bit ciphertext

Figure G.1   Simplified DES Scheme

10-bit key

P10

5   5

LS-1   LS-1

5   5

P8

8
K_1
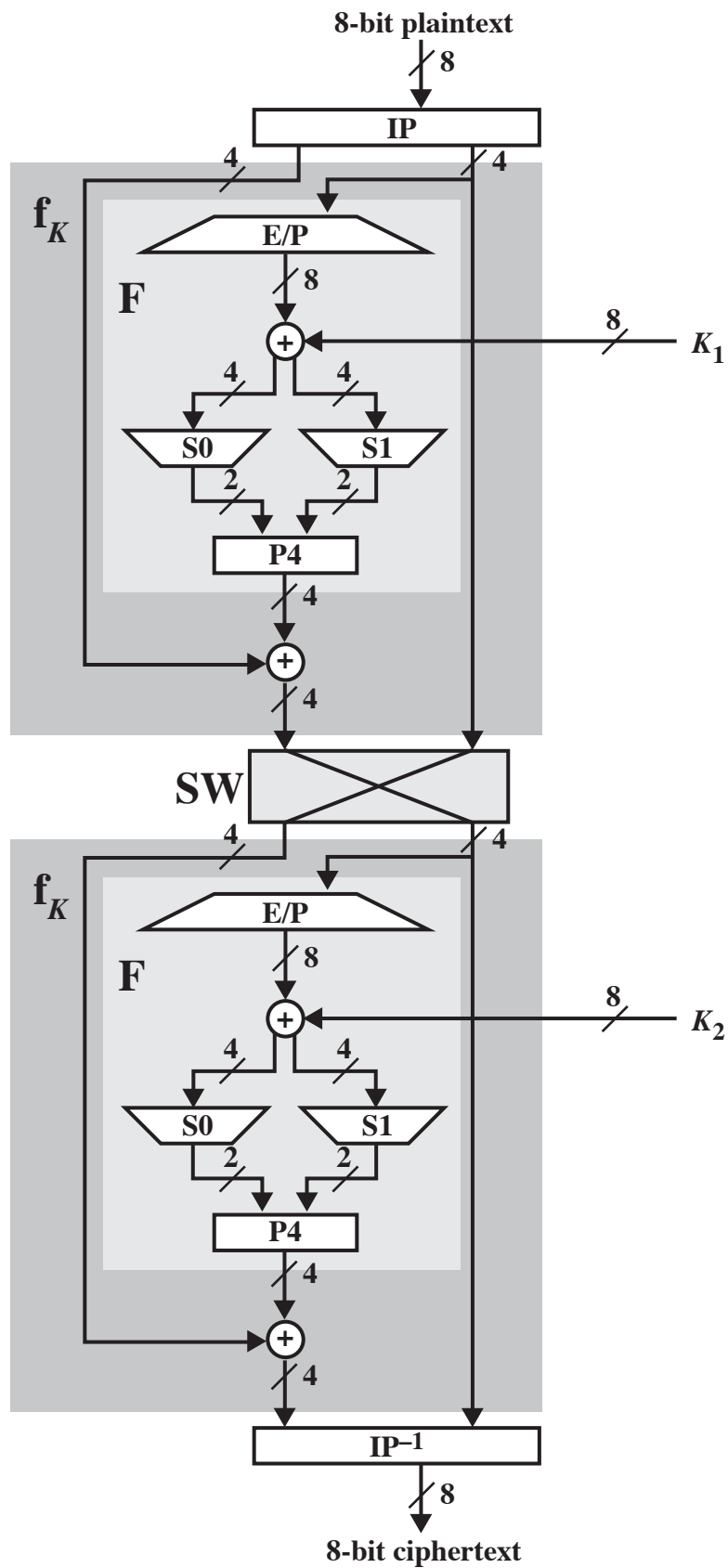
LS-2   LS-2

5   5

P8

8
K_2

Figure G.2   Key Generation for Simplified DES

Figure G.3   Simplified DES Encryption Detail