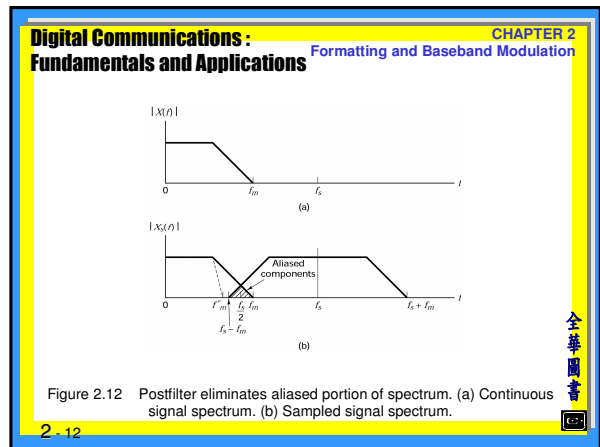
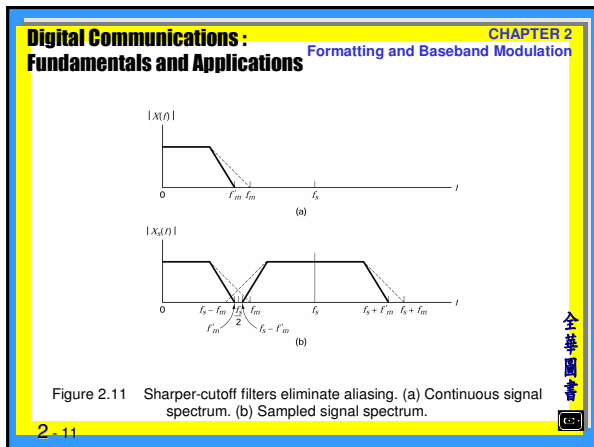
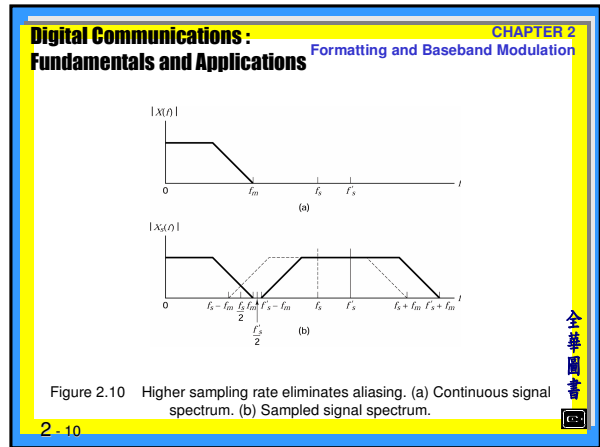
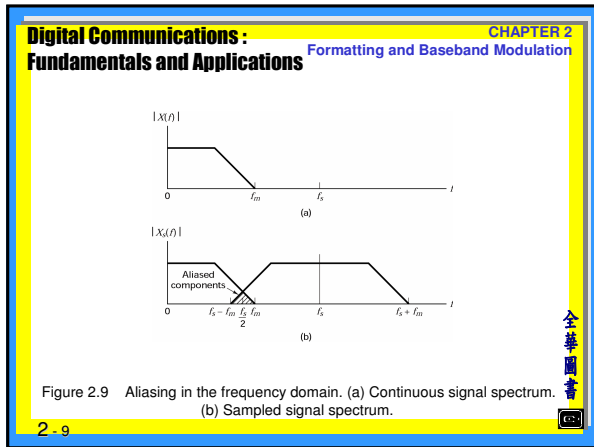
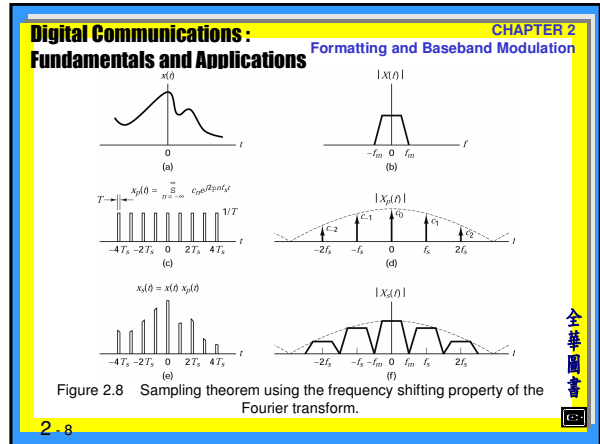
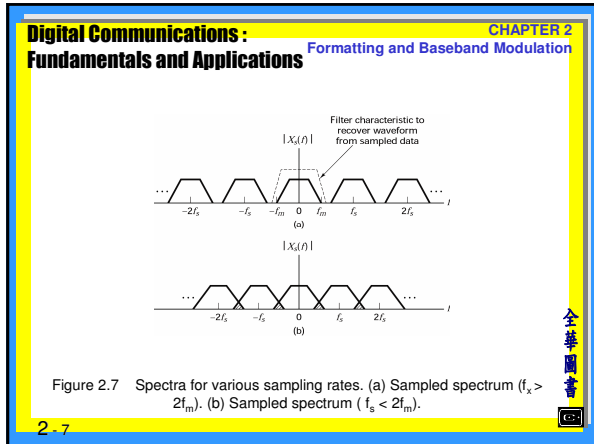
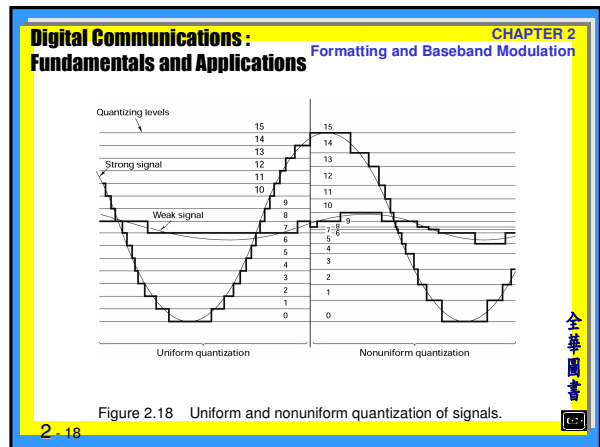
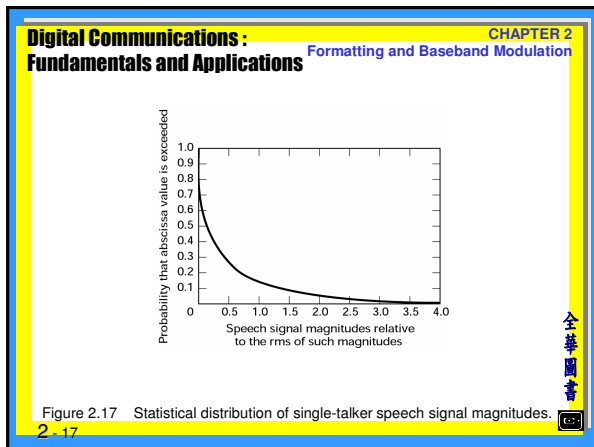
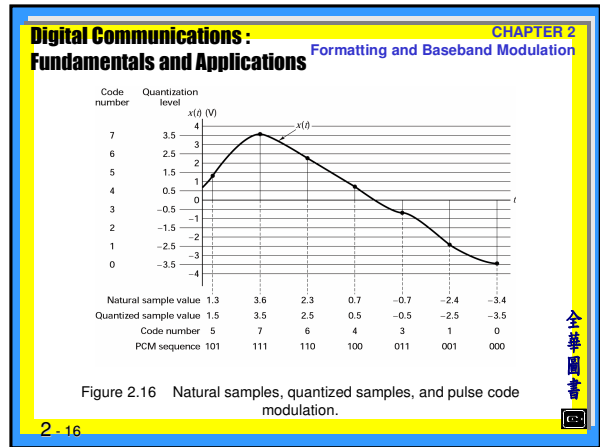
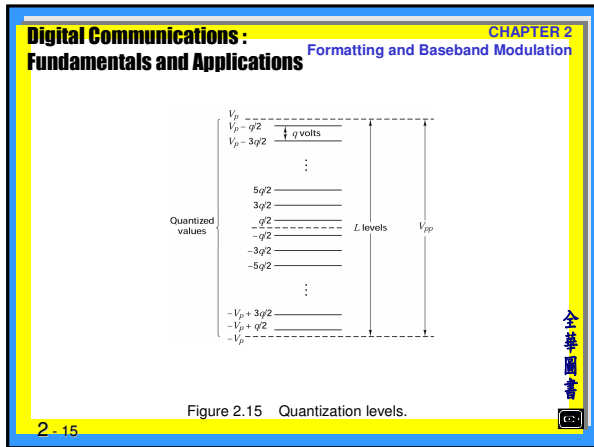
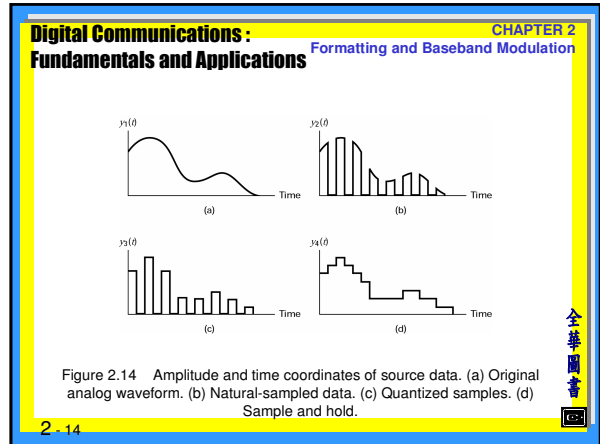
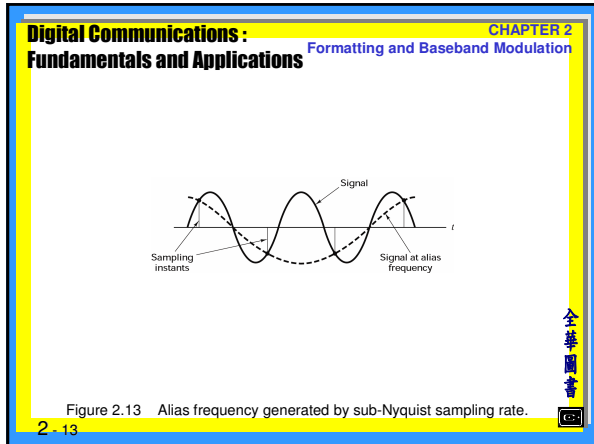


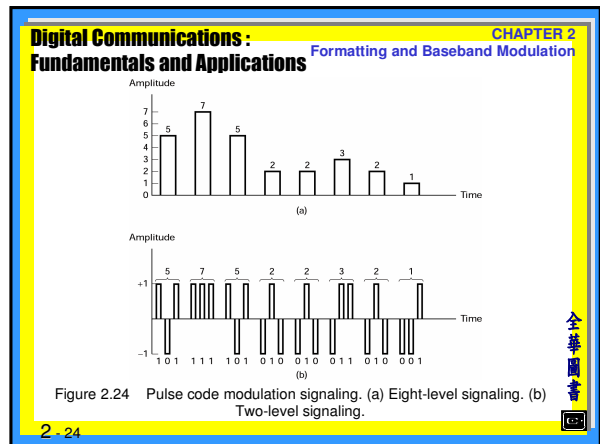
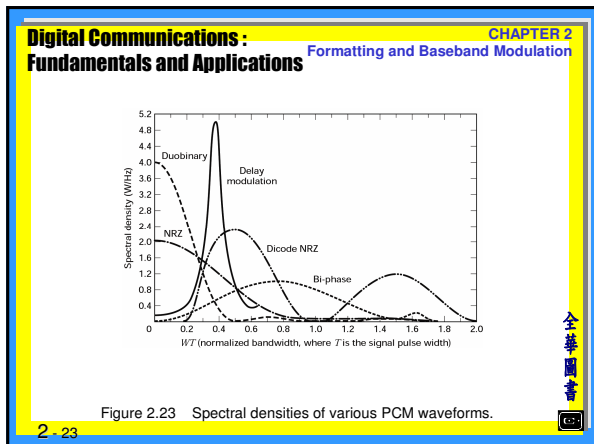
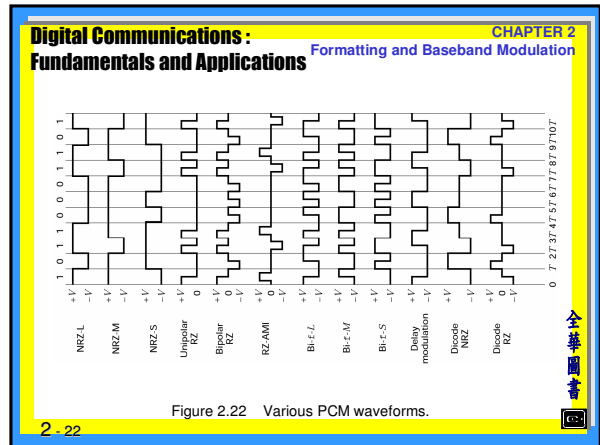
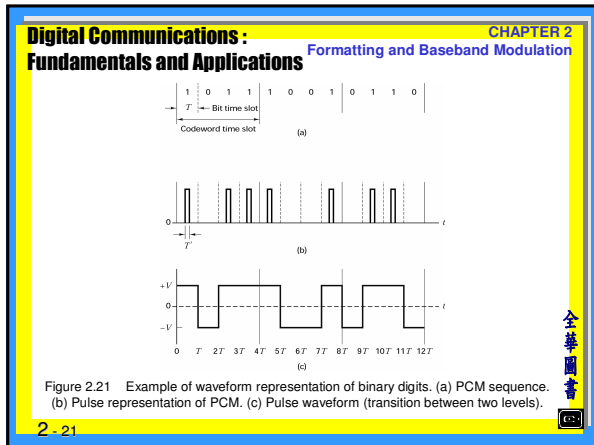
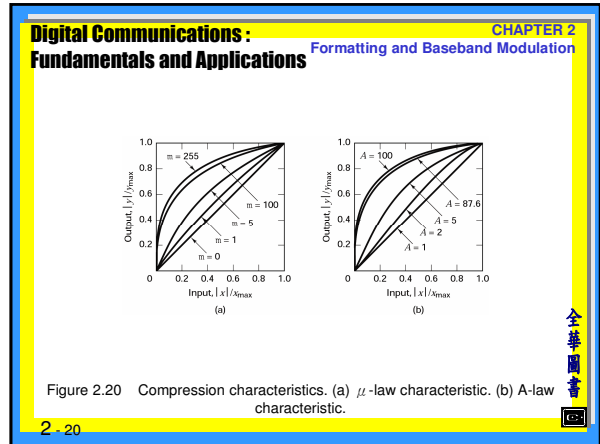
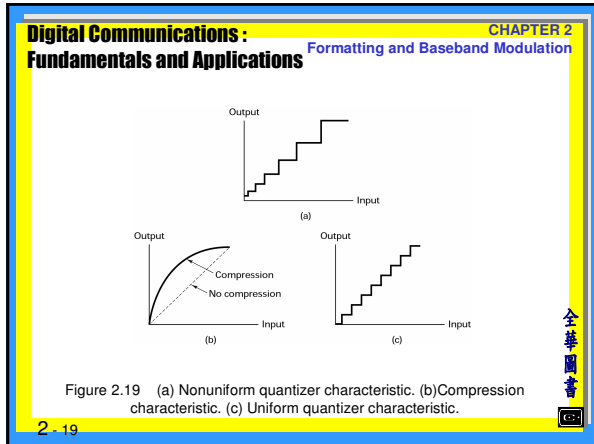
### Digital Communications : Fundamentals and Applications

CHAPTER 2  
Formatting and Baseband Modulation

Bits	5	0	1	0	1	0	1	0	1	0	1
1	0	0	0	0	0	0	0	1	1	1	1
2	0	0	0	0	0	0	0	1	1	1	1
3	0	0	0	0	0	0	0	1	1	1	1
4	0	0	0	0	0	0	0	1	1	1	1
5	0	0	0	0	0	0	0	1	1	1	1
6	0	0	0	0	0	0	0	1	1	1	1
7	0	0	0	0	0	0	0	1	1	1	1
8	0	0	0	0	0	0	0	1	1	1	1
9	0	0	0	0	0	0	0	1	1	1	1
10	0	0	0	0	0	0	0	1	1	1	1
11	0	0	0	0	0	0	0	1	1	1	1
12	0	0	0	0	0	0	0	1	1	1	1
13	0	0	0	0	0	0	0	1	1	1	1
14	0	0	0	0	0	0	0	1	1	1	1
15	0	0	0	0	0	0	0	1	1	1	1
16	0	0	0	0	0	0	0	1	1	1	1
17	0	0	0	0	0	0	0	1	1	1	1
18	0	0	0	0	0	0	0	1	1	1	1
19	0	0	0	0	0	0	0	1	1	1	1
20	0	0	0	0	0	0	0	1	1	1	1
21	0	0	0	0	0	0	0	1	1	1	1
22	0	0	0	0	0	0	0	1	1	1	1
23	0	0	0	0	0	0	0	1	1	1	1
24	0	0	0	0	0	0	0	1	1	1	1
25	0	0	0	0	0	0	0	1	1	1	1
26	0	0	0	0	0	0	0	1	1	1	1
27	0	0	0	0	0	0	0	1	1	1	1
28	0	0	0	0	0	0	0	1	1	1	1
29	0	0	0	0	0	0	0	1	1	1	1
30	0	0	0	0	0	0	0	1	1	1	1
31	0	0	0	0	0	0	0	1	1	1	1
32	0	0	0	0	0	0	0	1	1	1	1
33	0	0	0	0	0	0	0	1	1	1	1
34	0	0	0	0	0	0	0	1	1	1	1
35	0	0	0	0	0	0	0	1	1	1	1
36	0	0	0	0	0	0	0	1	1	1	1
37	0	0	0	0	0	0	0	1	1	1	1
38	0	0	0	0	0	0	0	1	1	1	1
39	0	0	0	0	0	0	0	1	1	1	1
40	0	0	0	0	0	0	0	1	1	1	1
41	0	0	0	0	0	0	0	1	1	1	1
42	0	0	0	0	0	0	0	1	1	1	1
43	0	0	0	0	0	0	0	1	1	1	1
44	0	0	0	0	0	0	0	1	1	1	1
45	0	0	0	0	0	0	0	1	1	1	1
46	0	0	0	0	0	0	0	1	1	1	1
47	0	0	0	0	0	0	0	1	1	1	1
48	0	0	0	0	0	0	0	1	1	1	1
49	0	0	0	0	0	0	0	1	1	1	1
50	0	0	0	0	0	0	0	1	1	1	1
51	0	0	0	0	0	0	0	1	1	1	1
52	0	0	0	0	0	0	0	1	1	1	1
53	0	0	0	0	0	0	0	1	1	1	1
54	0	0	0	0	0	0	0	1	1	1	1
55	0	0	0	0	0	0	0	1	1	1	1
56	0	0	0	0	0	0	0	1	1	1	1
57	0	0	0	0	0	0	0	1	1	1	1
58	0	0	0	0	0	0	0	1	1	1	1
59	0	0	0	0	0	0	0	1	1	1	1
60	0	0	0	0	0	0	0	1	1	1	1
61	0	0	0	0	0	0	0	1	1	1	1
62	0	0	0	0	0	0	0	1	1	1	1
63	0	0	0	0	0	0	0	1	1	1	1
64	0	0	0	0	0	0	0	1	1	1	1
65	0	0	0	0	0	0	0	1	1	1	1
66	0	0	0	0	0	0	0	1	1	1	1
67	0	0	0	0	0	0	0	1	1	1	1
68	0	0	0	0	0	0	0	1	1	1	1
69	0	0	0	0	0	0	0	1	1	1	1
70	0	0	0	0	0	0	0	1	1	1	1
71	0	0	0	0	0	0	0	1	1	1	1
72	0	0	0	0	0	0	0	1	1	1	1
73	0	0	0	0	0	0	0	1	1	1	1
74	0	0	0	0	0	0	0	1	1	1	1
75	0	0	0	0	0	0	0	1	1	1	1
76	0	0	0	0	0	0	0	1	1	1	1
77	0	0	0	0	0	0	0	1	1	1	1
78	0	0	0	0	0	0	0	1	1	1	1
79	0	0	0	0	0	0	0	1	1	1	1
80	0	0	0	0	0	0	0	1	1	1	1
81	0	0	0	0	0	0	0	1	1	1	1
82	0	0	0	0	0	0	0	1	1	1	1
83	0	0	0	0	0	0	0	1	1	1	1
84	0	0	0	0	0	0	0	1	1	1	1
85	0	0	0	0	0	0	0	1	1	1	1
86	0	0	0	0	0	0	0	1	1	1	1
87	0	0	0	0	0	0	0	1	1	1	1
88	0	0	0	0	0	0	0	1	1	1	1
89	0	0	0	0	0	0	0	1	1	1	1
90	0	0	0	0	0	0	0	1	1	1	1
91	0	0	0	0	0	0	0	1	1	1	1
92	0	0	0	0	0	0	0	1	1	1	1
93	0	0	0	0	0	0	0	1	1	1	1
94	0	0	0	0	0	0	0	1	1	1	1
95	0	0	0	0	0	0	0	1	1	1	1
96	0	0	0	0	0	0	0	1	1	1	1
97	0	0	0	0	0	0	0	1	1	1	1
98	0	0	0	0	0	0	0	1	1	1	1
99	0	0	0	0	0	0	0	1	1	1	1
100	0	0	0	0	0	0	0	1	1	1	1
101	0	0	0	0	0	0	0	1	1	1	1
102	0	0	0	0	0	0	0	1	1	1	1
103	0	0	0	0	0	0	0	1	1	1	1
104	0	0	0	0	0	0	0	1	1	1	1
105	0	0	0	0	0	0	0	1	1	1	1
106	0	0	0	0	0	0	0	1	1	1	1
107	0	0	0	0	0	0	0	1	1	1	1
108	0	0	0	0	0	0	0	1	1	1	1
109	0	0	0	0	0	0	0	1	1	1	1
110	0	0	0	0	0	0	0	1	1	1	1
111	0	0	0	0	0	0	0	1	1	1	1
112	0	0	0	0	0	0	0	1	1	1	1
113	0	0	0	0	0	0	0	1	1	1	1
114	0	0	0	0	0	0	0	1	1	1	1
115	0	0	0	0	0	0	0	1	1	1	1
116	0	0	0	0	0	0	0	1	1	1	1
117	0	0	0	0	0	0	0	1	1	1	1
118	0	0	0	0	0	0	0	1	1	1	1
119	0	0	0	0	0	0	0	1	1	1	1
120	0	0	0	0	0	0	0	1	1	1	1
121	0	0	0	0	0	0	0	1			







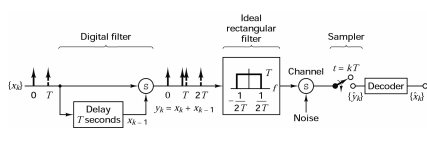


Figure 2.25 Duobinary signaling.

2 - 25

全華圖書

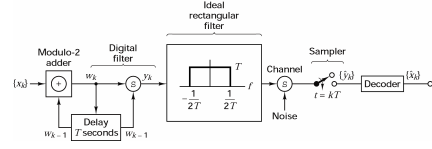


Figure 2.26 Precoded duobinary signaling.

2 - 26

全華圖書

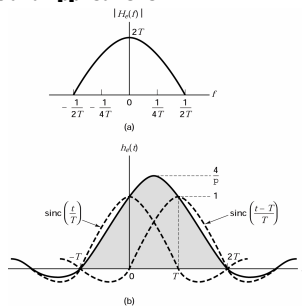


Figure 2.27 Duobinary transfer function and pulse shape. (a) Cosine filter. (b) Impulse response of the cosine filter.

2 - 27

全華圖書

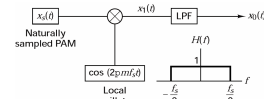


Figure P2.1

2 - 28

全華圖書