

Reading Advice EITA50

John G. Proakis and Dimitris G. Manolakis, Digital Signal Processing, Fourth Edition, Pearson Prentice Hall ISBN 0-13-187374-1

The second edition differs and is not recommended for the course.

	Content	4th edition (US)	4th edition (International)	4th new international edition
	Introduction	p. 1-37	p. 1-37	p. 1-37
<i>Read carefully</i>		p. 14-17, 21-26	p. 14-17, 21-26	p. 14-17, 21-26
Important		Table 1.1, p. 23	Table 1.1, p. 23	Table 1.1, p. 23
	Discrete-time signals and systems			
		p. 41-129	p. 40-127	p. 43-131
<i>Read carefully</i>	definitions	p. 42-49	p. 41-48	p. 44-51
<i>Read carefully</i>	convolution definition	p. 73-80	p. 72-79	p. 75-82
<i>Read carefully</i>	convolution properties	p. 80-83	p. 79-82	p. 82-85
<i>Read carefully</i>	diff. eq. 1 order	p. 93-98	p. 92-97	p. 95-100
Not included		section 2.4.3	section 2.4.3	section 2.4.3
<i>Read carefully</i>	correlation	p. 118-120, 125-128	p. 117-119, 124-127	p. 120-122, 127-130
	Z-transform			
		p. 147-214	p. 141-200	p. 151-218
<i>Read carefully</i>	z-transform definition	p. 148-157	p. 142-151	p. 152-161
<i>Read carefully</i>	z-transform properties	p. 157-170	p. 151-165	p. 161-174
Important		Table 3.2, p.169	Table 3.2, p. 164	Table 3.2, p. 173
Important		Table 3.3, p.170	Table 3.3, p. 165	Table 3.3, p. 174
Important		Figures p.175-176	Figures p. 170-171	Figures p. 179-180
Not included		section 3.4.1	section 3.4.1	section 3.4.1
Read summarily		p. 182-214	p. 186-197	p. 186-218
Fourier transform		p. 224-291	p. 229-275	p. 230-297
Read summarily	Fourier series, analog	p. 224-234	p. 229-240	p. 230-240
<i>Important</i>	Analog Fourier Transform	p. 234-238	p. 240-246	p. 240-244

Read summarily	Fourier series, discrete	p. 238-248	p. 247-254	p. 244-254
Important		p. 248-254	p. 254-267	p. 254-260
Not included	The Cepstrum	section 4.2.7	p. 267-268	section 4.2.7
Read summarily		p. 262-271	p. 268-277	p. 268-277
<i>Important</i>	Symmetry properties	p. 271-279	p. 277-285	p. 277-285
<i>Important</i>	Properties	p. 279-291	p. 285-297	p. 285-297
<i>Important</i>	Tables	Table 4.5-6 p. 290-291	Table 4.5-6 p. 296-297	Table 4.5-6 p. 296-297
Frequency analysis of signals		p. 300-362	p. 307-371	p. 308-370
Read summarily		p. 300-317	p. 307-321	p. 308-325
<i>Important</i>	Frequency response	p. 317-321	p.325-329	p.325-329
Read summarily		p. 321-362	p. 302-371	p. 329-370
Sampling and reconstructions		p. 384-440	p. 395-452	p. 396-452
<i>Important</i>	Sampling	p. 384-394	p. 395-406	p. 396-406
<i>Important</i>	Reconstruction, plus OH	p. 395-401	p. 407-413	p. 407-413
Not included		6.3-6	6.3-6	6.3-6
Discrete Fourier transform (DFT)		p. 449-501	p. 461-513	p. 461-513
Read summarily		p. 449-464	p. 461-476	p. 461-476
<i>Important</i>	DFT, IDFT	eq. 7.1.20-21 p. 456	eq. 7.1.20-21 p. 423	eq. 7.1.20-21 p. 468
Read summarily		p. 464-495	p. 476-507	p. 476-507
<i>Important</i>	Convolution, DFT	p. 471-480	p. 483-492	p. 483-492
Not included		7,5	7,5	7,5
FFT not included		-	-	-
Implementation of discrete-time systems		p. 563-640	p. 577-655	p. 577-655
Read summarily		p. 565-568	p. 579-582	p. 579-582
Not included		p. 569-640	p. 531-655	p. 583-655