

Läsanvisningar för ETI265 VT2 2017

Kursbok: 'Digital Signal Processing. Principles, Algorithms and Applications' fjärde upplagan av John G. Proakis, Dimitris G. Manolakis, Pearson Prentice Hall ISBN 0-13-187374-1

Sidhänvisningarna avser de olika upplagorna av boken. I den internationella upplagan har en del problem utgått, finns dock i övningshäftet.

OBS! Underlaget i den 2:a upplagan skiljer sig åt i flera delar och rekommenderas inte som kursmaterial.

	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
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	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

Preliminärt schema för övningar (US & International Edition)

Ö1: Kap 1: 1.5, 1.11, 1.2abd, 1.14 (1.2ce, 1.7, 1.8, 1.13)

Ö2: Kap 2: 2.1, 2.7abc, 2.16b[1,2,4,11] (2.13)

Ö3: Kap 2: 2.21ab, 2.35, 2.61, 2.62 (2.64)

Ö4: Kap 3: 3.1, 3.2afh, 3.8, 3.14cdg (3.9, 3.14ab, 3.2cg)

Ö5: Kap 3: 3.16ac, 3.35ad, 3.40 (E3.2, E3.5)

Ö6: Kap 3: E3.1, E3.3, E3.5 (E3.4)

Ö7: Kap 4: 4.8, 4.9acd, 4.10ab, 4.12c, 4.14 (4.9bg)

Ö8: Kap 5: 5.2ab, 5.17, 5.25, 5.26 (5.39, E4.1, E4.3,)

Ö9: Kap 5: 5.35, E4.2, E4.5, E4.6, 5.39

Ö10: Kap 7: 7.1, 7.8, 7.10, 7.23 (7.2,7.3, 7.4, 7.7)

Ö11: Kap 7: 7.11 7.18, E5.1, E5.2, E5.3 (7.9, 7.24, 7.25)

Ö12: Kap 9: E8.1, E8.3, E8.4, E8.5 (E8.2, E8.6)

Ö13: Kap 9: 9.3, 9.9, 9.15, 9.19

Problem inom parentes lämpliga hemtal