	File name (or example	4.2 Advertising
Торіс	reference)	Models
Variations of advertising example	Example 4.1	1-4, 5-6
Variations of employee scheduling example	Example 4.2	, • •
Variations of aggregate planning example	Example 4.3	
Variations of oil blending example	Example 4.4	
Variations of production process example	Example 4.5	
Variations of investing example	Example 4.6	
Variations of pension fund example	Example 4.7	
Efficiency of banks	P04 41	
Efficiency of elementary schools	P04 42	
Efficiency of police departments	P04 43	
Efficiency of academic departments	P04 44	
Hiring and firing bus drivers		
Scheduling police force		
Aggregate planning of shoe production		
Blending drugs	P04 48	
Blending candy		
Blending orange juice		
Investing bank assets		
Investing in stocks		
Blending fertilizer		
Drug blending		
Floor space for TVs, PCs	P04 55	
Selecting bond portfolio	P04 56	
Blending and shipping coal	P04_57	
Producing tables and chairs	101_57	
Production process for three products		
Production process for three products		
Investing in five investments	P04 61	
Investing in two investments	P04 62	
Investing in three investments	104_02	
Blending oil		
Blending steel	P04_65	
Blending steel	P04 66	
Producing wheat and corn	P04_67	
Blending perfumes	104_07	
Refining and shipping oil	P04_69	
Blending cattle feed	101_03	
Blending and purifying oil	P04 71	
Producing, shipping, and advertising toys	P04_71	
Producing two products on two lines		
Scheduling bank employees	P04 74	
Scheduling airline ticket agents	P04_74	
Blending rocks to fill orders	P04_75	

Aggregate planning of car production		
Blending oil	P04_78	
Aggregate planning of DVD players		
Manufacturing automobiles		
Determining monthly payments		
Mortgage payments		
Planning for retirement		
Merger negotiations	P04_84	
Processing Medicare claims	P04_85	
Determining executive salaries	P04_86	
Aggregate planning of car production		
Renting supercomputers by IRS	P04_88	
Buying and selling wheat	P04_89	
Risk index of portfolio	P04_90	
Blending gasoline	P04_91	
Production, blending of drugs		
Production process for three chemicals	P04_93	
Production process for three products		
Scheduling production of motorcycles		
Advertising to increase auto sales	P04_96	
Purchasing and selling bonds	P04_97	
Aggregate planning of car production	P04_98	
Investing in three projects	P04_99	
Paying off credit card debt	P04_100	
Producing various length aluminum ingots	P04_101	
Scheduling three shifts of employees	P04_102	
Aggregate planning for air conditioners		
Scheduling bank employees	P04_104	
Scheduling police officers	201 100	
Buying and selling corn	P04_106	
Disposing of waste	P04_107	
Blending for transistor production	P04_108	
Blending turkey meat		
Scheduling engine line workers		
Processing tax forms at IRS	DO4 112	
Managing cash flows with loans Scheduling truck production	P04_112 P04_113	
Scheduling bank employees to process checks	P04_113 P04_114	
Scheduling fiberglass mat production	P04_114 P04_115	
Blending perfumes	F04_115	
Blending oils to make gasoline		
Production process for six products	P04 118	
Production process for four products	107_110	
Production process for three products		
Assigning students to schools	P04_121	
Processing lumber	107_121	
Selling two products to two customer groups	P04_123	
come products to the customer groups	101_125	

Investing and paying bills	P04_124	
Scheduling police officers	P04_125	
Processing paper for recycling	P04_126	
Arbitrage on bond sales and purchases	P04_127	
Scheduling employees at fast food restaurant		
Scheduling nurses at a maternity ward		
Blending for paper products		
Determining cost of producing a product		
Aggregate planning, multiple products on machines		
Personnel strategy at CPA firm		
Difficulty of large employee scheduling problems		
Clearing denominators in blending problem		

4.3 Employee Scheduling Models	4.4 Aggregate Planning Models	4.5 Blending Models	4.6 Production Process Models	4.7 Financial Models
7-9, 10-12				
	13-16, <b>17-19</b>	20-24, <mark>25</mark>		
		20-24, 23	26-28, <mark>29</mark>	
				30-33, <mark>38</mark> 34-37, <mark>39-40</mark>
				·

4.8 Data Envelopment Analysis	End of chapter
41	
42	
43	
44	
	45
	46
	47
	48
	49
	50 51
	52
	53
	54
	55
	56
	57
	58
	59
	60
	61
	62
	63
	64 65
	66
	67
	68
	69
	70
	71
	72
	73
	74
	75
	76

77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123

124
125
126
127
128
129
130
131
132
133
134
135