

Multiplexor Arrangements

Solutions to Group Work

Mr. H. Leijon, ITU



UNION INTERNATIONALE DES TELECOMMUNICATIONS
INTERNATIONAL TELECOMMUNICATION UNION
UNION INTERNACIONAL DE TELECOMUNICACIONES



M U L T I P L E X O R S

1920	480	480	120	120	30
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"Book-keeping"

M4	M301	M201																														
<table border="1" style="width: 100%; height: 40px;"> <tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table>									<table border="1" style="width: 100%; height: 40px;"> <tr><td style="width: 50%;"></td><td style="width: 50%; text-align: center;">C</td></tr> <tr><td style="text-align: center;">B</td><td style="text-align: center;">E</td></tr> <tr><td></td><td style="text-align: center;">M201</td></tr> <tr><td></td><td style="text-align: center;">M202</td></tr> </table>		C	B	E		M201		M202	<table border="1" style="width: 100%; height: 40px;"> <tr><td style="width: 50%;"></td><td style="width: 50%; text-align: center;">C</td></tr> <tr><td style="text-align: center;">M301</td><td style="text-align: center;">C</td></tr> <tr><td></td><td style="text-align: center;">D</td></tr> <tr><td></td><td style="text-align: center;">D</td></tr> </table>		C	M301	C		D		D	<table border="1" style="width: 100%; height: 40px;"> <tr><td style="text-align: center;">30</td></tr> <tr><td style="text-align: center;">/</td></tr> <tr><td style="text-align: center;">/</td></tr> <tr><td style="text-align: center;">/</td></tr> <tr><td style="text-align: center;">/</td></tr> </table>	30	/	/	/	/
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P A S S I N G S Y S T E M S

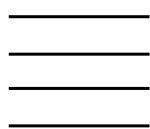
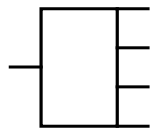
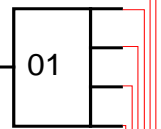
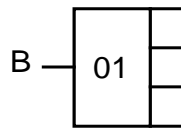
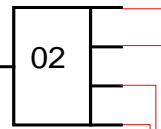
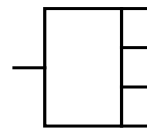
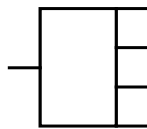
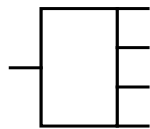
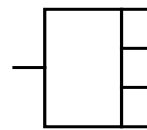
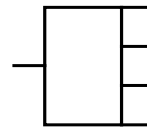
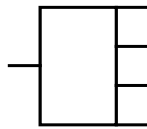
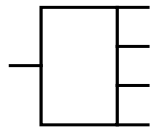
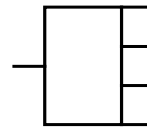
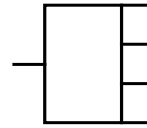
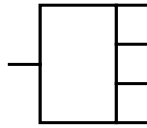
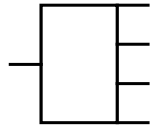
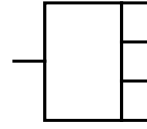
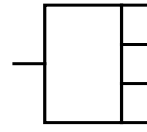
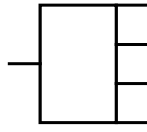
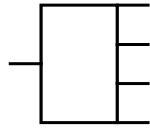
1920	480	120	30
/	C/D	C/E	/
/	/	D/E	/
/	/	/	/
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M4
1920 / 480

M3
480 / 120

M2
120 / 30

Case a)

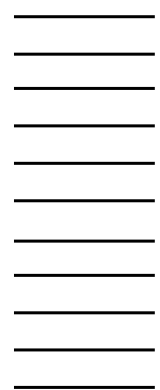


C
D

1920

C
E
C
E
D
E

C
C
D
D
D
E
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E



Work Sheet III

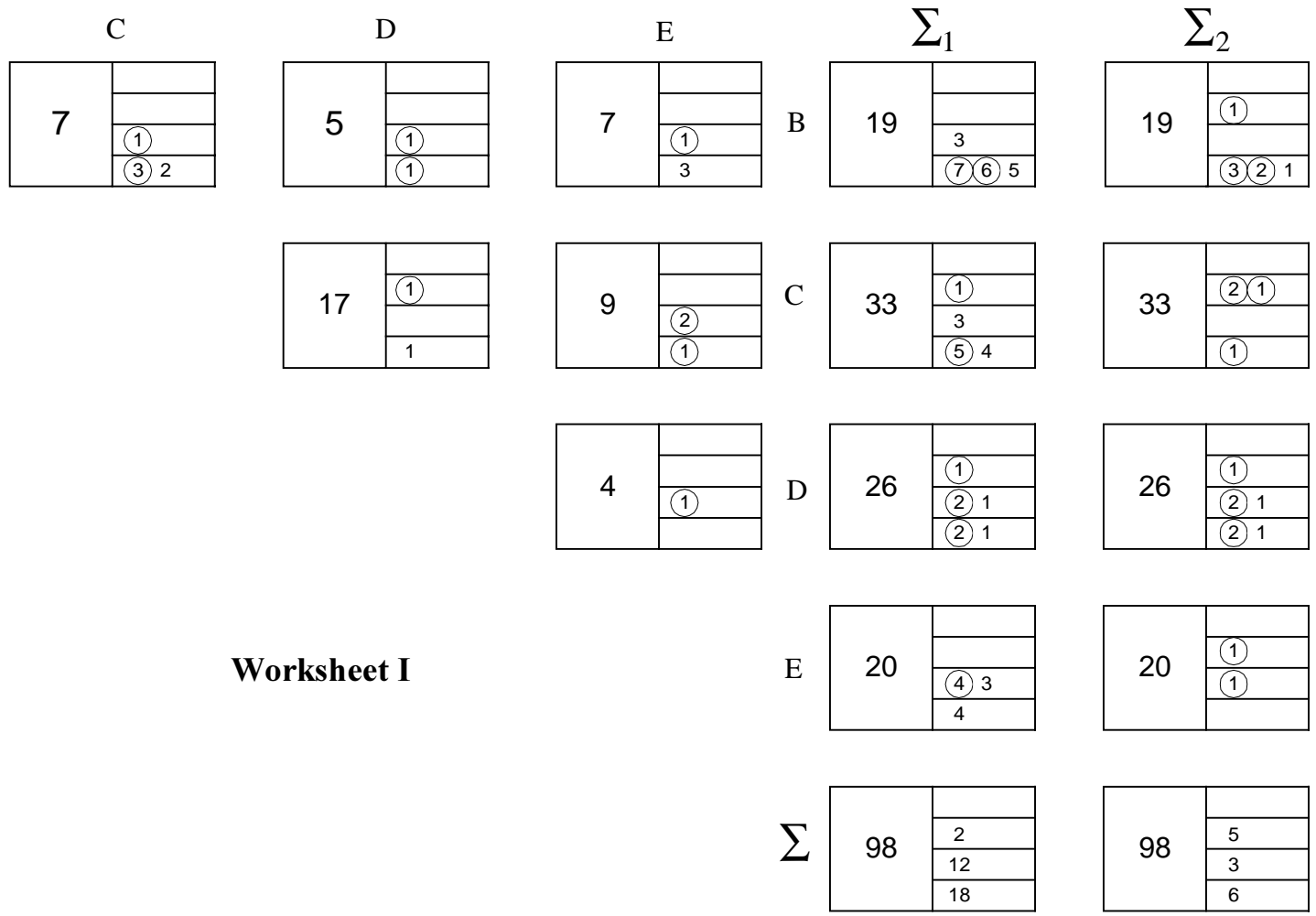
480

120

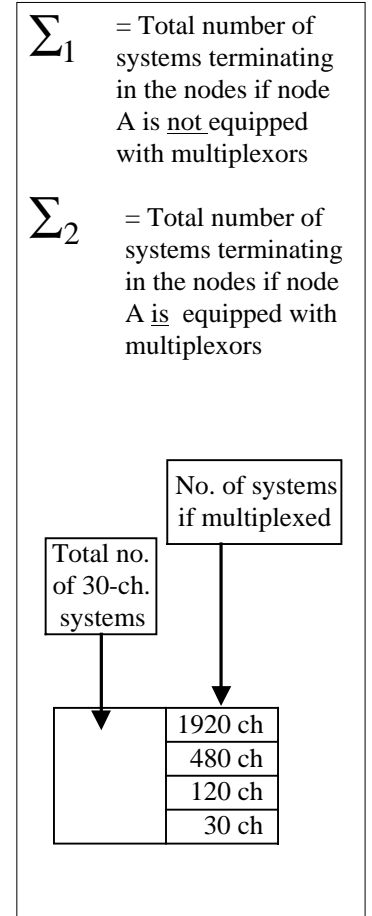
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30

Case b)



Worksheet I



M U L T I P L E X O R S

1920	480	480	120	120	30
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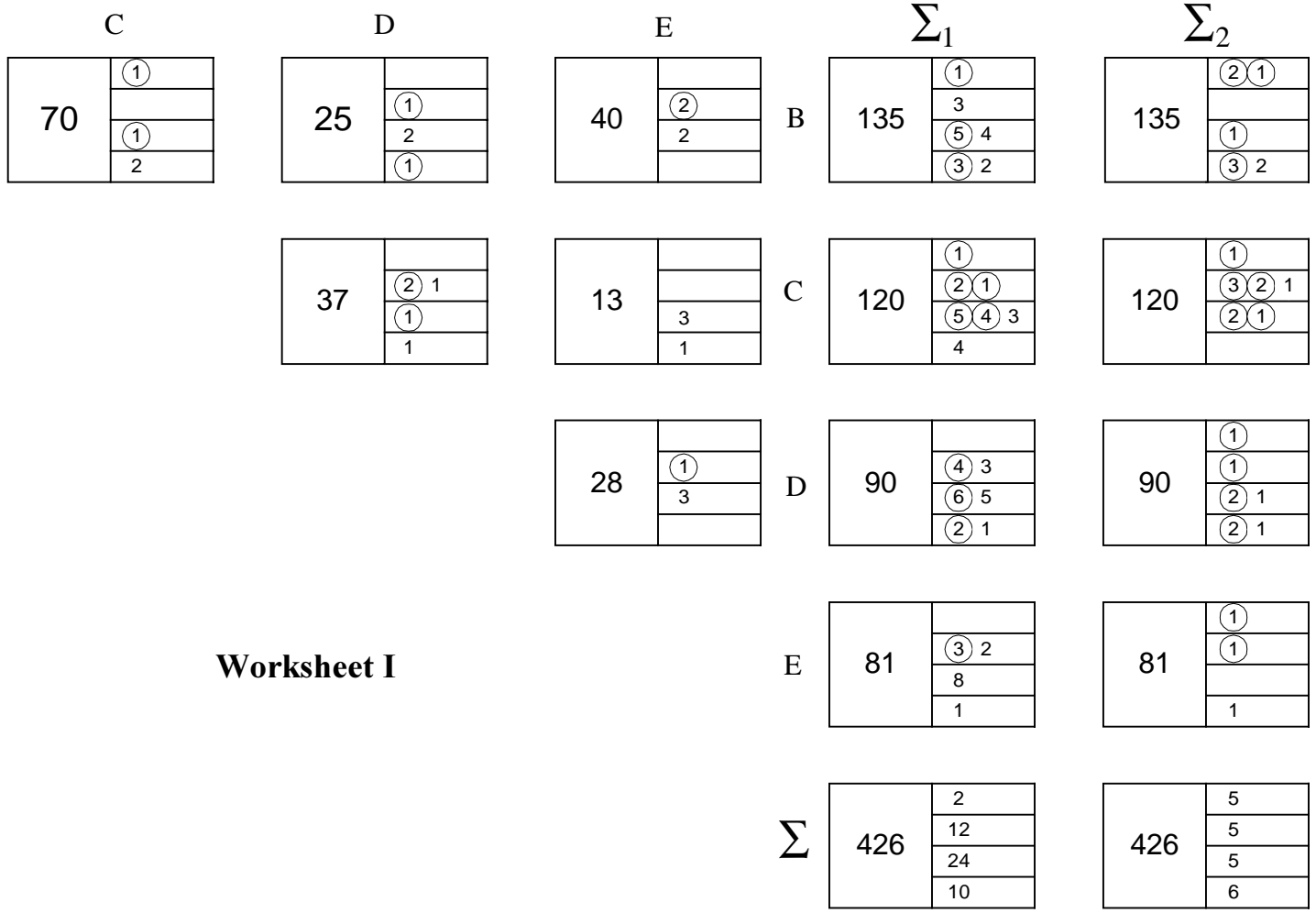
"Book-keeping"

M4 []	M301 B M302 M303 D M201	M201 M301 (B) M202 M202 M203 M203	30 B / E / / /
M4 []	M302 C M301 M303 M303 M202	M202 M302 (C) M201 M201 D M203	120 / / / /
M4 []	M303 E M301 M302 M302 M203	M203 M303 (E) M201 M201 M202 B	480 / / / /
M4 []	M3 []	M2 []	480 / / / /
M4 []	M3 []	M2 []	480 / / / /
M4 []	M3 []	M2 []	480 / / / /

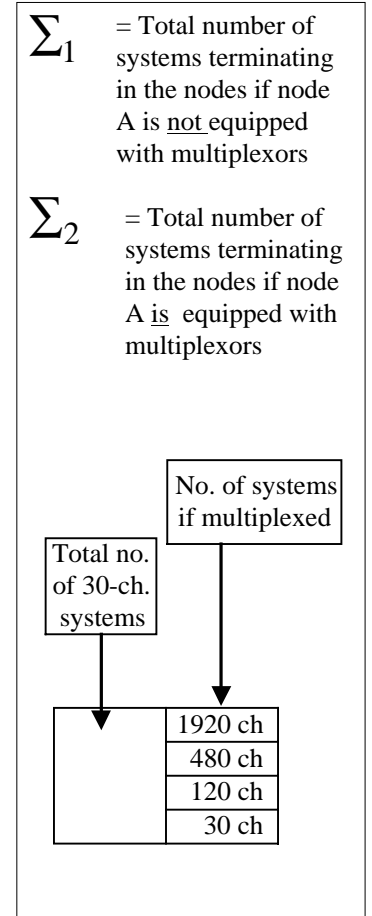
P A S S I N G S Y S T E M S

1920	480	120	30
/	C / D	D / E	B / C
/	/	/	B / D
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/	/	/	/

Case c)



Worksheet I



M U L T I P L E X O R S

"Book-keeping"

1920	480	480	120	120	30
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M401	M301	M201																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td rowspan="4" style="text-align: center; vertical-align: middle;">B</td><td>M402</td></tr> <tr><td>M403</td></tr> <tr><td>M403</td></tr> <tr><td>M301</td></tr> </table>	B	M402	M403	M403	M301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td rowspan="4" style="text-align: center; vertical-align: middle;">M401 (B)</td><td>M302</td></tr> <tr><td>M302</td></tr> <tr><td>M303</td></tr> <tr><td>M303</td></tr> </table>	M401 (B)	M302	M302	M303	M303	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td rowspan="4" style="text-align: center; vertical-align: middle;">M304 (C)</td><td>B</td></tr> <tr><td>B</td></tr> <tr><td>D</td></tr> <tr><td>E</td></tr> </table>	M304 (C)	B	B	D	E	30
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		M403																
		M403																
	M301																	
M401 (B)	M302																	
	M302																	
	M303																	
	M303																	
M304 (C)	B																	
	B																	
	D																	
	E																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td rowspan="4" style="text-align: center; vertical-align: middle;">D</td><td>M401</td></tr> <tr><td>M403</td></tr> <tr><td>C</td></tr> <tr><td>M302</td></tr> </table>	D	M401	M403	C	M302	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td rowspan="4" style="text-align: center; vertical-align: middle;">M402 (D)</td><td>M301</td></tr> <tr><td>M301</td></tr> <tr><td>M303</td></tr> <tr><td>M303</td></tr> </table>	M402 (D)	M301	M301	M303	M303		C / B					
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		M403																
		C																
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	M301																	
	M303																	
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		M401																
		M402																
	M303																	
M403 (E)	M301																	
	M301																	
	M302																	
	M302																	
			C / D															
			C / E															
			120															
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			480															
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P A S S I N G S Y S T E M S

1920	480	120	30
B / C	C / D	B / C	B / D
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/	/	/	/
/	/	/	/

