Solução pelo método da composição latina ou método algébrico - Exemplo slide 13 – aula4.pdf

Passos 1 e 2:

	0	1	0	1	0
A=	0	0	0	1	1
	0	1	0	0	1
	0	0	1	0	0
	1	0	1	0	0

 0
 b
 0
 d
 0

 0
 0
 0
 d
 e

 0
 b
 0
 0
 e

 0
 0
 c
 0
 0

 a
 0
 c
 0
 0

Passo 3: P1←A

Passo 4: P2 \leftarrow B x P1; P3 \leftarrow BxP2; P4 \leftarrow BxP3;

В

0	b	0	d	0
0	0	0	d	е
0	b	0	0	е
0	0	С	0	0
Α	0	С	0	0

Ρ1

0	1	0	1	0
0	0	0	1	1
0	1	0	0	1
0	0	1	0	0
1	0	1	0	0

P2

0	0	d	b	b
е	0	d+e	0	0
е	0	<u>e</u>	b	b
0	С	0	0	С
0	a+c	0	а	<u>C</u>

В

0	b	0	d	0
0	0	0	d	e
0	b	0	0	е
0	0	С	0	0
Α	0	С	0	0

P2

_					
	0	0	d	b	b
	е	0	d+e	0	0
х	е	0	0	b	b
	0	С	0	0	С
	0	a+c	0	a	0

Р3

<u>be</u>	dc	bd+be	0	dc
0	dc+ea+ec	0	ea	dc
be	ea+ <u>ec</u>	<u>bd+be</u>	ea	0
ce	0	0	<u>cb</u>	cb
<u>ce</u>	0	ad	ab+cb	ab+cb

Р3

Ρ4

								_
0	b	0	d	0		<u>0</u>	dc	b
0	0	0	d	e		0	<u>0</u>	
0	b	0	0	е	х	be	ea	
0	0	С	0	0		ce	0	
а	0	С	0	0		0	0	

<u>0</u>	dc	bd+be	0	dc
0	<u>0</u>	0	ea	dc
be	ea	<u>O</u>	ea	0
ce	0	0	<u>0</u>	cb
0	0	ad	ab+cb	<u>0</u>
	0 be ce	0 <u>0</u> be ea ce 0	0 <u>0</u> 0 be ea <u>0</u> ce 0 0	0 0 0 ea be ea 0 ea ce 0 0 0

	<u>dce</u>	0	0	<u>bea</u>	bdc+dcb
	dce	0	ead	eab+ecb	<u>dcb</u>
:	0	0	<u>ead</u>	bea+eab+ <u>ecb</u>	<u>bdc</u>
	cbe	cea	0	<u>cea</u>	0
	<u>cbe</u>	adc+ <u>cea</u>	abd+ <u>abe</u>	<u>cea</u>	<u>abc</u>

Os caminhos hamiltonianos são: abdce, adcbe, bdcea, beadc, cbead, ceabd, dcbea, dceab, eabdc.

Se as arestas são valoradas, então pode-se determinar o caminho de menor custo.