离散数学2年八周作世.

$$B_{S} = \begin{bmatrix} -1 & 1 & 0 & 0 & 0 & 1 & 0 \\ 1 & 0 & 1 & 0 & -1 & 0 & 0 \\ 0 & -1 & 0 & 0 & -1 & 0 & 0 -1 \\ 0 & 0 & 0 & -1 & 1 & -1 & 0 & 0 \end{bmatrix}$$

$$e_{1} e_{2} e_{3} e_{3} e_{3} e_{4} e_{7}$$

$$B_{11} = \begin{bmatrix} -1 & 1 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & -1 & 0 & 0 \end{bmatrix}$$

$$B_{12} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 0 \\ 0 & -1 & -1 & -1 \end{bmatrix}$$

$$C_{f_{12}} = -B_{11}^{T} B_{12}^{-T} = \begin{bmatrix} -1 & -1 & 0 & 0 \\ -1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & -1 & -1 \\ 0 & 0 & 0 & -1 \end{bmatrix}$$

$$Cf = \begin{bmatrix} 1 & 0 & 0 & 0 & -1 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 & 0 & -1 & -1 \\ 0 & 0 & 0 & 1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & 1 & 0 & 0 & -1 \\ e, & e_1 & e_5 & e_4 & e_4 & e_7 \end{bmatrix}$$

い 将Bs进行到交换

$$BS = \begin{bmatrix} 1 & 0 & 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & -1 & -1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 & 0 & -1 \end{bmatrix}$$

$$E_{1} = \begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 \\ 0 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 \end{bmatrix}$$

$$B_{12} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & -1 \end{bmatrix}$$

$$S_{11} = \begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \\ 0 & -1 & 0 & 1 \end{bmatrix}$$

$$E_{11} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 \\ 0 & -1 & 0 & 1 \end{bmatrix}$$

$$E_{12} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 0 \\ 0 & -0 & 0 & -1 \end{bmatrix}$$

$$E_{13} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 \\ 0 & -1 & 0 & 1 \end{bmatrix}$$

$$E_{14} = \begin{bmatrix} 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 \end{bmatrix}$$

$$E_{15} = \begin{bmatrix} 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 \end{bmatrix}$$

$$E_{15} = \begin{bmatrix} 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 \end{bmatrix}$$

$$E_{15} = \begin{bmatrix} 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 \end{bmatrix}$$

$$E_{15} = \begin{bmatrix} 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 \end{bmatrix}$$

$$E_{15} = \begin{bmatrix} 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 \end{bmatrix}$$

Mitition

$$C \in S + D = 0$$
 $C \in S + D = 0$
 $C \in S + D =$

0/00/01/01/00 01/1000/10/00/1/00/01/01/01/01/01/01/0

4.7个分词

16、采用 Kruskal 再法尽路,将边按权标序

¿ 1 ...

rnska	1412/2011	2, 119-64	AMM A		Tala.	
ei	(V4. V3)	权.	₹ e1 V4. e2 V8.		V3 V4 V1 V8	, V3V4
lz	(V8. V7) (V1, V8)	2	es Vi.	V8 3	VIVIV	(, V2V4 1V8. V2V4
02 04 01	(V ₇ , V ₆)	3	es V2.	V4 4		1V8 , VSV3V4 6V7V8 , VSV3V4
e1 e1	(Vs, V7) (V4, V2)	4	e6 Vs e7 V4	. ,		3 V4 V3 V4 V7 V8 .
es eg	(V4, V1) (V4, V4)	4 5		ZEL	۸.۰	
e13		<u> </u>	炭 延树由		×	
C13	(V_3, V_1)	ร เ 7	总长	22		
Q14 Q13		7				