

efbñS frñujwf!Gpx !Ejtusjc vujpo!po!Ejsfdufe!Ofux psl !!

Bc tus bdu

**2! OUS PE DU PO!
!**

-
-
-
-
-

3!S FMBUFE!X P S L T

$$\mathbf{U} = \left[\begin{array}{c|c} + & = \\ \hline & = \end{array} \right] > \neq$$

$$\mathbf{U} = \Delta^- \mathbf{B}$$

$$\Delta$$

$$\mathbf{B}$$

$$\pi$$

$$\lambda =$$

$$\pi \mathbf{T} = \pi$$

$$\pi = \overline{\quad\quad\quad}$$

$$\quad\quad\quad$$

$$\mathbf{U} = \left\{ \begin{array}{c} \longrightarrow \end{array} \right. \rightarrow$$

U

π

U

$$\frac{\pi}{\pi} \leq \quad (\quad)$$

!

4! EFBMGMP X!

!

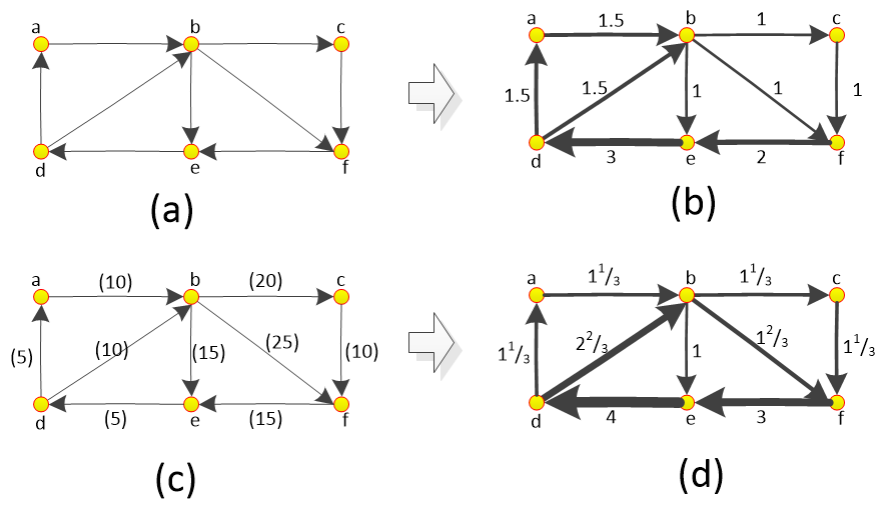
4 2!CbtjdBttvn uipo!

4 3! e f bñGpx !E f gjo juipo!

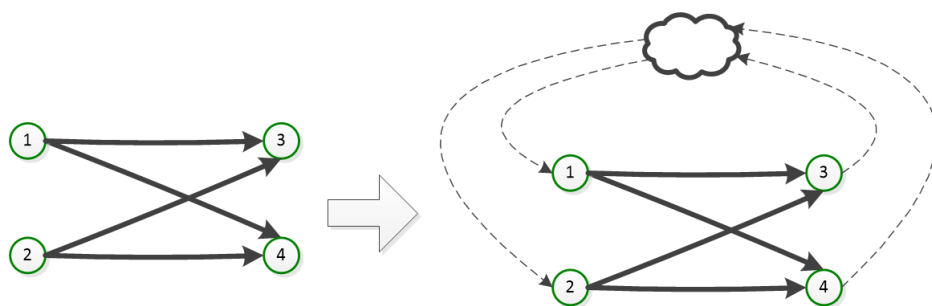
= ()

$$G = \begin{bmatrix} & & \\ & & \end{bmatrix}$$

E f g j o j u p o ! 2 j e f b n g p x



4 4! e f bñGpx !N pe fñjoh!



4 5!N vñj. BhfoñTjn vñbujpo!
!

S

• U
<div>Brhpsjii n</div> <div> $\mathbf{B} = (\mathbf{B} - \mathbf{B}) >$ $\mathbf{w} = \sum \mathbf{B}$ $\Delta = (\mathbf{w})$ $\mathbf{U} = \Delta^{-} \mathbf{B}$ </div>

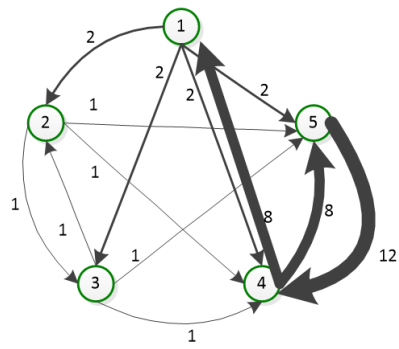
Fssps"!S fgfsfodf!tpvsdf!opulgpvoe

!
Ovn fsjdbitF bn rfi.2

$$\mathbf{B} = \left[\begin{array}{c} \\ \\ \\ \end{array} \right]$$

$$\mathbf{S}_\text{=} = \left[\begin{array}{c} \\ \\ \\ \end{array} \right] \qquad \mathbf{S}_{=\infty} = \left[\begin{array}{cccc} \infty & \infty & \infty & \infty \\ & \infty & \infty & \infty \\ \infty & & \infty & \infty \\ & & & \infty \end{array} \right]$$

$$G = \begin{bmatrix} & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \end{bmatrix}$$



4 6!N bovbnDpn vubujpo!pgTuboebse! efbnGpx!

Brhpsjui n .3 !N bovbnDpn vubujpo!pgTuboebse! efbnGpx!
o vu
Pvu vu

4 6!Mjofbs!Brhfcsb!Dpn vubujpo!pg efbnGpx!

C

f

C

$$\mathbf{C}\mathbf{f}=\mathbf{1}$$

\mathbf{f}

\mathbf{f}

D

$$\mathbf{E}=\begin{bmatrix}\mathbf{C}\\\cdots\\\mathbf{D}\end{bmatrix}$$

$$\mathbf{E}\mathbf{f}=\mathbf{1}$$

\mathbf{f}

\mathbf{E}

$$\mathbf{f}=\quad(\mathbf{E})$$

\mathbf{f}

Fssps"!S fgfsfodf! tpvsdf! opul gpvoe

Fssps"!S fgfsfodf! tpvsdf! opul gpvoe

C

D

C

D

D

B

\mathbf{C}^+

\mathbf{C}^-

$$\mathbf{C}^++\mathbf{C}^-=\mathbf{C}$$

\mathbf{o}

$$\mathbf{C}^+\mathbf{f}=\mathbf{o}$$

$$\mathbf{C}^-\mathbf{f}=-\mathbf{o}$$

gpvoe

f
Fssps'!S fgfsodf!tpvsdf!opulgvoe
Fssps'!S fgfsodf!tpvsdf!opul

f

$$g=\frac{f}{f}$$

Brhpsjui n .4 !Mjofbs!Brhfcsb!dpm vubujpo!pg/Tuboebse! efbn!Gmpx!
o vu
P vu vu

D

$E=\begin{bmatrix}C\\ \cdots\\ D\end{bmatrix}$

f

C⁺

C

C⁺

Ef=1

$g=\frac{f}{f}$

!
5! SP FSU FTPG EFBMGMPX!

Ui fpsfn !3

$$G\equiv \kappa G$$

N

k

$$\mathbf{t} \qquad \mathbf{B} \qquad \mathbf{t}$$

$$\mathbf{t} = \mathbf{k} \, \mathbf{B}$$

$$\mathbf{t} = \mathbf{B} \mathbf{k}$$

- $\mathbf{t} = \mathbf{t}$
- $\mathbf{t} = \mathbf{t}$

Ui fpsfn .4

$$\Sigma$$

$$\frac{\Sigma}{\Sigma} = \Sigma = \pi$$

!
Ui fpsfn .5

U

$$\pi = \begin{bmatrix} \mathbf{U} & - \\ & \mathbf{k} \end{bmatrix} \begin{bmatrix} \\ \mathbf{\kappa} \end{bmatrix}$$

$$\mathbf{G} = \pi \mathbf{j} \circ$$

!
!
6!N BY N N!FOUS P !

!

Ui fpsfn .6

$$=[\hspace{1cm}\dots\hspace{1cm}]$$

$$=-\sum_{=}$$

$$=-\sum_{=}$$

$$\sum_{=} =$$

$$\begin{aligned}(\hspace{1cm})&= \hspace{1cm} + \lambda \hspace{1cm} (\hspace{1cm}) \\&= -\sum_{=} \hspace{1cm} + \lambda \left(\sum_{=} \hspace{1cm} - \right)\end{aligned}$$

$$\frac{\partial \hspace{1cm} (\hspace{1cm})}{\partial} = -\hspace{1cm} \left(\hspace{1cm} + \hspace{1cm} (\hspace{1cm}) \right) + \lambda =$$

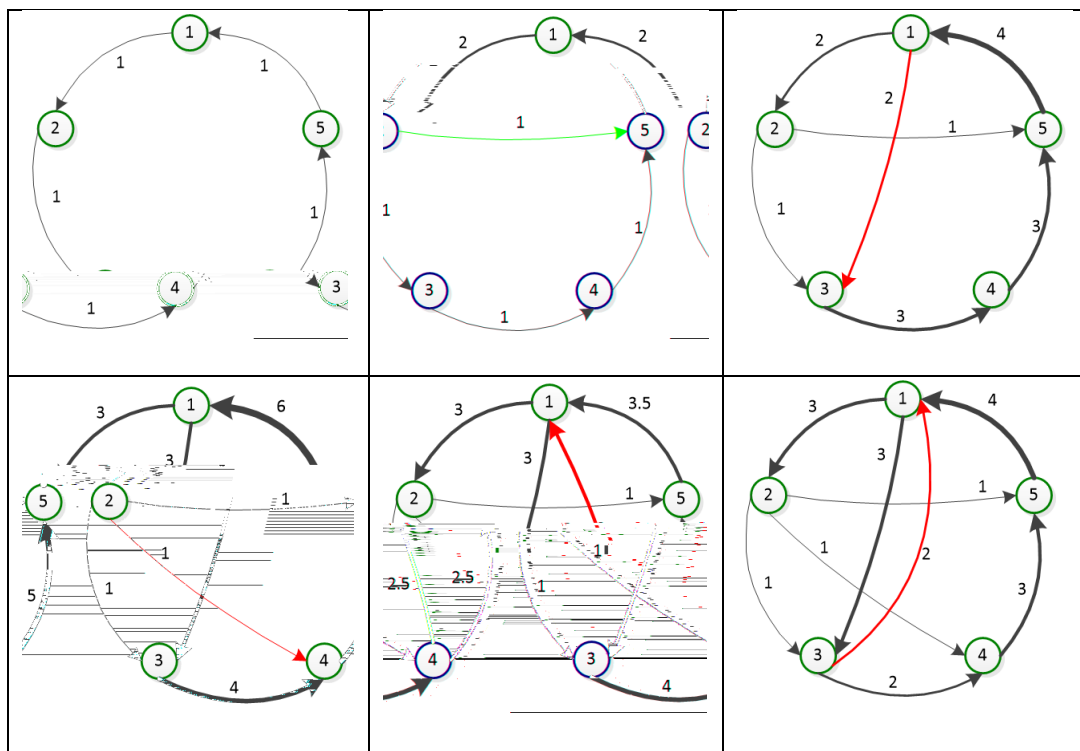
$$= \hspace{1cm}^{\lambda} \hspace{1cm} - \hspace{1cm} =$$

$$\sum_{=} =$$

$$=-\hspace{1cm} = \hspace{1cm} \dots$$

Fssps"!S fgfsfodf!tpvsdf!opulgvoe

7! B MDBU POT! PG EFBM GMPX! UP! E OBN D! USBOT PSUBU PO!
OFUX PSL!

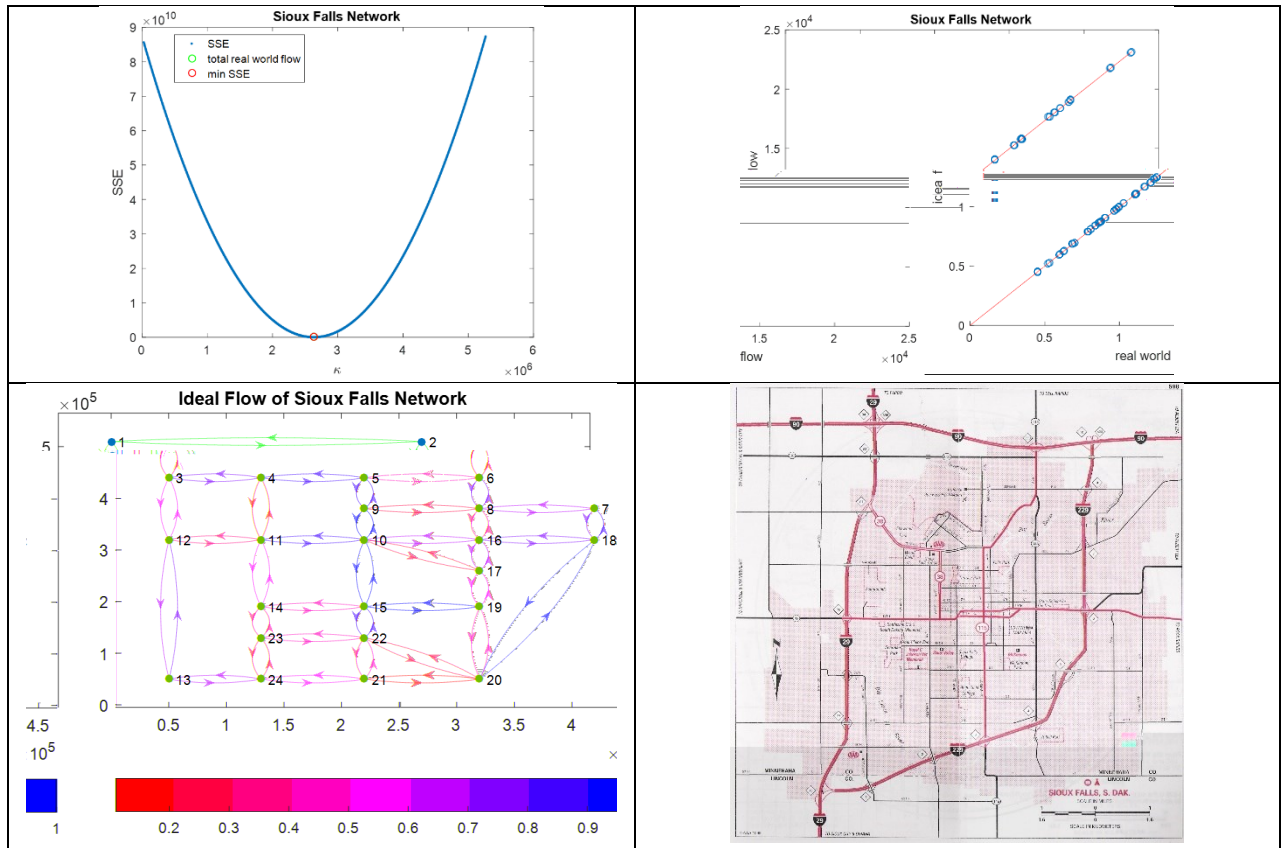


8!EFN POTUS BU PO!PG EFBMGMPX!UP!T P Y!GBMM!US BOT PS UBU PO!
OFUX PSL!

U

κ

$\kappa =$



!DPODM T POT!BOE!S FDP N N FOEBU POT!
!

MTU!PGOP UBU POT!

B

C

C⁻

C⁺

D

E

f

g

G

k

N

o

S

t

t

U

Δ

λ

κ

π

π

S FGFS FODFT!

