Matrices: Ky + AEKMXM - A +BEKNXM (A+B); = A ij+ Bij GEK, AEK -> 9.AEK nxm (g.A) = Acj. 9 ACK BEKMAT

ACK BEKMAT Etombro

$$(A B)_{ij} = A i A B A j + A i 2 B 2 j + ... + A i m B m j$$

$$= \sum_{i=1}^{m} A_{i i k} B_{i j}$$

Propudades

V (B+C) = AB+AC

(B+A)C = AC+B.C

A B \$ 13 A (no es comulutro)

> podro no Zai se exito AB
> podro no comoudir tomón phodomensos duensio = lonomo

Paro Ponson

D Seon A & Knxm, B, CEKMXr problège A (B+C)=AB+AC

Nxm

Nxm

Nxr

Sea $t \le i \le 0$ $1 \le j \le T$ $(A(B+C))_{i,j} = \sum_{K=1}^{m} \Delta_{i,K} \cdot (B+C)_{K,j} = \sum_{K=1}^{m} A_{i,K} (B_{i,K} + C_{i,K})$ $= \sum_{K=1}^{m} (A_{i,K}B_{i,K} + \Delta_{i,K} C_{i,K})$ $= \sum_{K=1}^{m} \Delta_{i,K} B_{i,K} + \sum_{J=1}^{m} A_{i,K} C_{i,K}$ $= \sum_{K=1}^{m} \Delta_{i,K} B_{i,K} + \sum_{J=1}^{m} \Delta_{i,K} C_{i,K}$ $= \sum_{K=1}^{m} \Delta_{i,K} B_{i,K} + \sum_{J=1}^{m} \Delta_{i,K} C_{i,K}$ $= \sum_{K=1}^{m} \Delta_{i,K} B_{i,K} + \sum_{J=1}^{m} \Delta_{i,K} C_{i,K}$

Defenire si los signentes ofiniociones sor Vo F y

Julificos con oleno o Dontrogriple

D so V, in e. V ou dru 2 y U, V, w eV

[U, V] y {V, w} son li > h U, w I es lo

(a) $V = R^2$ $V = R^2$

MU, W & NO SON LD, RON LI (A > B Confray. A A -1B)

101-10
B Sea DEREN / DETAU 70 4 VER
Dea De Conce Tr(A) >0 FAU >0 +ve Rn-101 Onlances Tr(A) >0 mxn (P3)
MEKUXU YEKWXU
(A) i 12 ji
The war
Kn = Kmx1 Sist Ecrocoon Ax=5
OTAv (v hospiento. Par A part)
a mondo
OT A DIXTER JXT EN JXT NORMAND
D' A JOSE K = K
Conortous:
AEKMXn. CIEK -> A.G. = A:
1 entelugar €-como mor develue i-estra
Columa
(ani) (o) (ani) and h
$\begin{pmatrix} \alpha_{2i} \end{pmatrix} \begin{pmatrix} \alpha_{2i} \end{pmatrix} = \begin{pmatrix} \alpha_{2i} \end{pmatrix} \begin{pmatrix} \alpha_{2i$
$\begin{pmatrix} Q_{1i} \\ Q_{2i} \\ Q_{0} \end{pmatrix} \begin{pmatrix} Q_{1i} \\ Q_{2i} \\ Q_{0} \end{pmatrix} = \begin{pmatrix} Q_{1i} \\ Q_{2i} \\ Q_{0} \end{pmatrix} \begin{pmatrix} Q_{1i} \\ Q_{2i} \\ Q_{0} \end{pmatrix} \begin{pmatrix} Q_{1i} \\ Q_{0} \\ Q_{0} \\ Q_{0} \end{pmatrix} \begin{pmatrix} Q_{1i} \\ Q_{0} \\ Q_{0} \\ Q_{0} \end{pmatrix} \begin{pmatrix} Q_{1i} \\ Q_{0} \\ Q_{0} \\ Q_{0} \\ Q_{0} \end{pmatrix} \begin{pmatrix} Q_{1i} \\ Q_{0} \\ Q_{0} \\ Q_{0} \\ Q_{0} \\ Q_{0} \end{pmatrix} \begin{pmatrix} Q_{1i} \\ Q_{0} \\ Q_{0} \\ Q_{0} \\ Q_{0} \\ Q_{0} \end{pmatrix} \begin{pmatrix} Q_{1i} \\ Q_{0} \\ Q$
Not the Rn-fol Enparticular con v=e;
$e_{\Delta}^{T} = e_{i}^{T} = e_{i$
Allana (Alla) = Dico > 0
Vienoplo,
Umon VI sasa Air >0
One At Exell All So
Tr(A) = \(\frac{2}{50}\) \(\sigma\) (Bign prosodu)
11(A) = 2 >0
1 A NEB
1 B Vox
Chequean

coloule la 1 mueso ale

$$\begin{pmatrix} 0 & 1 & 0 \\ 1 & 1 & 0 \\ 2 & -1 & \Delta \end{pmatrix}$$

Herendo A & Knixn su mora y BEKnixn

$$\Delta B \Rightarrow Z_{\mathbf{d}} \rightarrow \begin{pmatrix} 0 & 0 \\ 0 & 1 \end{pmatrix}$$

Motriz Imballe - I su mosso Si I aleemen A en moballe (A-1)

$$\exists \mathcal{B} / \mathcal{I} = A \mathcal{B} = A \cdot \left(\underbrace{\mathcal{B}_{1} \mid \mathcal{B}_{2} \mid \dots \mid \mathcal{B}_{0}}_{\text{columns}} \right)$$

$$= \left(A \mathcal{B}_{1} \mid A \mathcal{B}_{2} \mid \dots \mid A \mathcal{B}_{0} \right)$$

ABI=GL, ABZ=EZ, -, ABn=En

admilen sol ester sultano.

$$(A \mid G_{\perp} \mid G_{2} \mid \mid G_{n})$$

$$(A \mid I_{n}) \rightarrow (I_{n} \mid I_{n} \mid I_{n}) \rightarrow (I_{n} \mid I_{n})$$

$$(A \mid I_{n}) \rightarrow (I_{n} \mid I_{n} \mid I_{n} \mid I_{n}) \rightarrow (I_{n} \mid I_{n} \mid I_{n} \mid I_{n})$$

$$(A \mid G_{\perp} \mid G_{n} \mid I_{n} \mid I_{$$

$$\begin{pmatrix} 0 & 1 & 0 & | & 1 & 0 & 0 \\ 1 & 1 & 0 & | & 0 & 1 & 0 \\ 2 & -1 & | & 0 & 0 & 1 \end{pmatrix} \xrightarrow{F_1 - F_2 \rightarrow F_1} \begin{pmatrix} -1 & 0 & 0 & | & 1 & -1 & 0 \\ 1 & 1 & 0 & | & 0 & 1 & 0 \\ 2 & -1 & | & 0 & 0 & 1 \end{pmatrix}$$

$$F_{1} + F_{2} \rightarrow F_{2} \begin{pmatrix} -1 & 0 & 0 & | & 1 & -1 & 0 \\ 0 & | & 0 & | & 1 & 0 & 0 \\ 2 & -1 & | & 0 & 0 & 1 \end{pmatrix} \qquad \begin{cases} F_{1} - F_{1} \\ 0 & | & 0 \\ 0 & | & 0 & | & 1 & 0 \\ 0 & 0 & | & 3 - 2 & 4 \end{cases}$$

det (AT) = det (A)

opan Triongula, oso con los opens comos que hago

$$C_{3} = \begin{pmatrix} 1 \\ 0 \\ 2 \end{pmatrix}$$

$$C_{4} = \begin{pmatrix} 2 \\ 7 \\ 0 \\ 2 \end{pmatrix}$$

$$C_{5} = \begin{pmatrix} 0 \\ 8 \\ 1 \\ 3 \end{pmatrix}$$

$$\int_{\text{Finally Coul}} \frac{1}{3000} \left(\begin{array}{c} 0 \\ 3000 \\ 0 \\ 0 \\ 1 \end{array} \right) \left(\begin{array}{c} 1 \\ 2 \\ 3 \end{array} \right) \left(\begin{array}{c} 0 \\ 2 \\ 3 \end{array} \right)$$

$$= \frac{(1)^{10}}{3000} = -3000 \left(1. \det \left(\frac{10}{32} \right) + 2 \det \left(\frac{11}{23} \right) \right)$$

$$= -3000 (1.2-3.0) + 2 (1.3-1.2)$$
$$= -3000 (1.(3)+2.1)$$

delenno si los

F (A)-ob(A)

caneado con CamScanner