Subject: Year. Month. Date. () 9910279 f	july / 1 de/ 2/ 1/20 1/20 1/20 1/20 1/20 1/20 1/20
$x = \begin{bmatrix} x_1 \\ x_n \end{bmatrix}  A = \begin{bmatrix} A_1 & A_2 & & A_n \end{bmatrix} = \begin{bmatrix} a_1 & a_2 \\ \vdots & \vdots & \vdots \\ \vdots & \vdots & \vdots \end{bmatrix}$	الله الله الله الله الله الله الله الله
Lant -	· - an J
$2\pi^T A x = x^T (A + A^T)$	م حراهم البت كنم
- — — — — — — — — — — — — — — — — — — —	
5000000000000000000000000000000000000	روس ۱) از سری مسی اسماده ملم
T. 170. 170.	To. 1. 1/4. 1: 1/4/
= 1:m x'Ah + h'Ax + h'Ah = 1:m x h=>0	h hooh hooh
= xTA + (Ax) T+ 0 = xT(A+AT) (	$P = A^{T} Y X^{T} A$
ع كوال كفت كر ماصل في عام ٢٠٦٨ است لذا هر ١٥	الله العد السر الله اله A من را باسر
	1 1 19 1 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MAN = [NTA, NTAN XTAN]["]	- X AIXI + X ANXA (Y U'S)
ONTAX - TONTAX ONTAX	Dutax J
$\frac{\partial x}{\partial x} = \frac{\partial x}{\partial x}$	DxnJ
$\partial x \overline{A} x = \alpha_{11} x_{11} + \alpha_{11} x_{11} + \alpha_{11} x_{11} = \alpha_{11} x_{11} + \alpha_{11} x_{11} + \alpha_{11} x_{11} = \alpha_{11} x_{11} + \alpha_{11} x_{11} + \alpha_{11} x_{11} = \alpha_{11} x_{11} + \alpha_{11} x_{11} + \alpha_{11} x_{11} = \alpha_{11} x_{11} + \alpha_{11} x_{11} + \alpha_{11} x_{11} = \alpha_{11} x_{11} + \alpha_{11} x_{11} + \alpha_{11} x_{11} = \alpha_{11} x_{11} + \alpha_{11} x_{11} + \alpha_{11} x_{11} = \alpha_{11} x_{11} + \alpha_{11} x_{11} + \alpha_{11} x_{11} = \alpha_{11} x_{11} + \alpha_{11} x_{11} + \alpha_{11} x_{11} + \alpha_{11} x_{11} = \alpha_{11} x_{11} + \alpha_{11} x_{11} = \alpha_{11} x_{11} + \alpha_{11} x_{11} +$	x, (a; +a; )+xr(a; +a; )++xnla;
9χ;	
$= \chi^{T}(A+A^{T})_{(i)} \Rightarrow \chi^{i}(A+A^{T})_{f}$	عمر
$= \partial x^T A x - x^T (A + A^T) = A^T Y x^T A$	••••••••••••••••••••••••••••••••••••••
$\frac{\partial x' A x}{\partial x'} = x' (A + A) = \frac{1}{2} x' f$	
	Th. (1)
TA 2 -> 1x1 - 1/2 - 1x)	ب ارور دارم له ۱۸ ۱۸ بل عدد
xn nxn nxl	$\tau$
ے حواب ان سے نزحان مراب سمت مر بعن	لذا xAx = (xAx) = xAx انا
TIA ATI KITA	
$: f A = A^{T}$	
***************************************	
PAPGO	

1+	$A = \begin{cases} a_{11} & \cdots & a_{1n} \\ a_{n1} & \cdots & a_{nn} \end{cases}$ (105) (iv)
	- \(\rangle \) (\(\rangle - \lambda \) (\(\rangle - \l
det!	$(A-\lambda L) = \det \left\{ \begin{array}{l} a_{11}-x & a_{1r} & \dots & a_{1n} \\ \vdots & a_{rr}-x & \dots & \vdots \\ a_{n1} & \dots & a_{nn-x} \end{array} \right\} = (a_{11}-x)\dots(a_{nn}-x)+9$
*********	7 ( ) n-1 ( n-r, 1) n-r, 1
<i>E</i> .	$(-1)^{h-1}(a_{11}+a_{11}+\cdots+a_{hn}) \times (-1)^{h-1}(a_{11}+a_{11}+\cdots+a_{hn}) \times (-1)^{h-1}(a_{11}+a_{11}+\cdots+a_{hn}) \times (-1)^{h-1}(a_{11}+a_{11}+\cdots+a_{hn}) \times (-1)^{h-1}(a_{11}+\cdots+a_{hn}) \times (-1)^{$
	$\frac{1}{2} \lambda_{1} + \cdots + \lambda_{n} = trace(A)$
'بد	Q J = in QVQ = In A of I Schur decomposition For ( so win
7	مارس unitary و لا من مارس بالاملى المست كد روى فو اصل أن منه و وه واردارز
	A C Q U Q -1
	= trace(A) = trace(QUQ-1) = trace(QQ-V) = trace(V) = [
	$\sum_{i=1}^{n} \lambda_{i} + \cdots + \lambda_{n} - trace(A)$
	Schur decomposition il os cul y de com position il os cul y de composition il os cul y de compositi
d	et (A) = det (QV0-1) = det (QQ-1) = det (V)
********	= dot [ h ] = hihr. h => det(A) = hihr.
	وس ۲) مماس فست قبل مای معادله مسموم می در دره دارم
do	$t(A-\lambda Z) = (-1)^{n}(\lambda - \lambda_1) \cdots (\lambda - \lambda_n)$
>=	e det A = 1, 12 10 : (1) i d'ulilo 1 d = 00 2 100,
***********	

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f ( n=t, X ==	x, Y=y) = f, xy	(X=x,Y=ylp=t) f (p=t) (d)	(1. W)
Jewy, X		^	***************************************
= + (X = x)	p=t)xfylY=	ylpst)xt, lyst)	
5 = 1 - by -	t) x - (y-t	$\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \left( y - t \right)$	
Tra	VYA	( * + 1 + (7 - t) )	
flyt	Y - ~ Y 1	1 e	te[0,1]
-> YXYY	1 1 5 9 7 =	/ TT	
***************************************	***************************************		else where
10 4 - ara	may f(HIX Y)	- ava may fly y 1 lfin	······································
MAP			, 1
		······································	\n_}
^	in Yo X.	$I = \{Y_1, \dots, Y_n\}$	<b>-</b>
mAP = argma	ax +(x1) +(Y)	r) + (r)	•••••
J	Y 16	- ((x1-))+ - + (Xn-p)+ (Y1-p)++	(1,-11) n
15	$A = \left( \frac{1}{2} \right)^{1/2} e^{-\frac{1}{2}}$	?	x + (y)
: F 0 ( ) (1)	X1-x1+ - + (Xn-x1+	11-417 + (Yn-x) 1)	••••••••
Ax e			7x
LA =	1 ((X1-j) + (	(Xn-jr)+(Y1-jr)++(Yn-jr))e	1 KI-1/1 ++ ([n-1/2])
مل کے			
20 dA = 0 -5	$\Sigma x_i + \Sigma Y_i$	- 1/2 = 0 > 1 = [X:+ [Y:	
dy	ist ist	Yn	
مره دی الری کاریاس	ر ا درا من سرد لذا	1) Jou 0 0 0 0 1 (1) 0	ترصروات ماسد ط
os IX; + IY	'. < Th	. شر است . گن ۱۳۸۳ بر است .	ς Σχ: Σχ:
			Th
	ي ( مو دارد لذا دارع:	من من مارواك مرابن من ان مرا	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
25	J. S. IXi+ IY	بن منوری بامروا که طراین بازه بدن این مر ا بن منوری بامروا که طراین بازه بدن این مر ا نزیم منوری بامروا که طراین بازه بدن این مر ا	
7	1		
$\mu = lo, l$	\\ \tag{2} - 1	else if [X:+[Y: <o else if [X:+[Y:&gt;In</o 	
		ensent brittingin	
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$$||A||_{\infty} = \max_{i \in J=1}^{r} |a_{ij}| = \max_{i \in$$

(2/+1x-V) (1x-Y) dx = [ 1x+1x - 1x - 1x - 1x - 1x dx ( x x - x + xx - 9x + 1xx) | = (4x - x + 1x - 24 + 1x) - (2 - 1 + 2 - 4 + 1x) X1 -- Xn  $= 1 - \left( \left( 1 - F_{x_1}(y_1) \right) \times \left( 1 - F_{x_1}(y_1) \right) \times \dots \times \left( 1 - F_{x_n}(y_1) \right) \right)$ Papco