System of linear egy

Ax=b

Ax=b, /Ux=b,

Tx=b,

Tx=b,

Faun Jordan

Tx=b,

[A'I] → [I'B]

AB=I

A=IA

A=A•I

TA=A

LU Decombosous,

A -> n×n

A -> LU

Lower o

09 · A 2 - 3 | A 2 \ 2 - 3 |

$$b = \begin{bmatrix} 1 & 2 & -3 \\ 4 & -1 & -2 \end{bmatrix}$$

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New Section 1 Page 2

$$\begin{bmatrix} 1 & -\frac{3}{2} & \frac{1}{2} \\ 0 & 1 & -\frac{1}{2} \end{bmatrix} \begin{bmatrix} \frac{1}{2} \\ \frac{1}{2} \end{bmatrix} \begin{bmatrix} \frac{1}{2} \\ \frac{1}{3} \end{bmatrix} \begin{bmatrix} \frac{1}{2} \\ \frac{1}{3} \end{bmatrix}$$

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L-> unit loves s matrix - Doolittle.

U-> general upher o trang.

2) A=LU L-> bower D (rout) U-> unt uphus D trangularis. Sout's Dagonel in hier 2

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New Section 1 Page 3

$$= \begin{cases} 0, & 0 & 0 \\ 0+ & l_{22} & 0 \\ 0 & l & u_{23} \\ 0 &$$

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 a_{21} a_{22} & a_{13} \\
 a_{3} a_{32} & a_{33}
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 a_{12} a_{22} a_{23}
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 a_{33}$$

 $l_{21}U_{11} = 7 \Rightarrow l_{21} = 7$ $l_{21}U_{12} + U_{22} = 1 \Rightarrow U_{22} = 19s - 1$

A = LU LUn = y Un = y Ly = b

New Section 1 Page 6

$$a=0 \text{ ad}=1 = \int a \text{ ad}$$

$$\int b \text{ c}$$

$$\int a \text{ ad} = \int a \text{ ad}$$

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eg []
$$\frac{2}{4}$$
 = [$\frac{1}{2}$ | $\frac{1}{2}$

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$$\begin{array}{c} l_{2,1}^{2} = -\frac{1}{5} & 1 & l_{3,1}^{2} = 460 \\ l_{2,1}^{2} = -\frac{1}{5} & 1 & l_{3,1}^{2} = 460 \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,1}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,1}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,1}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,1}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,1}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,1}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,1}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,1}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,1}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,1}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2} & l_{1,2}^{2} & l_{1,2}^{2} \\ l_{1,2}^{2} = -\frac{1}{19} & l_{1,2}^{2}$$

RM= 1017 1017 VA Z LU (BA) = (U) = AP = U-127 Dooct. Herature Methods V-15) Lo Gaus Jacobi 1. Gaus & luns 20 Gaus Sedal 2- " Jordan 3. LU decomp. tainan = b) Q1171+ 912724and, tour 12 2 - +9247126 +anan = bn an, 7, +9n2 72 t 7= (a, - n) 2° = (x1, -- , xn) = 7 0th steht

New Section 1 Page

Ban 71 = 11/b, -a. 7 = -

-ann MR

$$y^{n+1} = -4y - 2x^{n} + 2x^{n}$$

$$z^{n+1} = 2a + 2x^{n} - 3x^{n}$$

$$x^{n} = 4 - 2y^{n} - 2 = 4$$

$$y^{n} = -4y - 2x^{n} + 2z^{n} = -4y$$

$$z^{n} = 2z + 2x^{n} - 3y^{n} = 2z$$

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