روش نوس بری حل درساههای فرخولی . درساه (۱) را باردر بازدسی ترانی ترانی . $\begin{cases} f_1(x_1, x_1, ..., x_n) = 0 \\ f_2(x_1, x_2, ..., x_n) = 0 \\ \vdots \\ f_n(x_1, x_2, ..., x_n) = 0 \end{cases}$ با نرق اند (الله على الله على المعار، وساه فول إمر عدب زير عاش ي دهم. زون لد (۱) باتد- زاج مراه (۲) باتد- زاج مراه (۲) باتد- زاج مراه (۲) باتد- زاج دام ا $\begin{cases} f_{t}(x) \simeq f_{t}(x^{(\kappa)}) + \nabla f_{t}(x^{(\kappa)}) (x - x^{(\kappa)}) \\ f_{t}(x) \simeq f_{t}(x^{(\kappa)}) + \nabla f_{t}(x^{(\kappa)}) (x - x^{(\kappa)}) \end{cases}$ $\Delta h = \begin{bmatrix} \frac{\partial f}{\partial x} \\ \frac{\partial f}{\partial x} \end{bmatrix} \quad . \quad C_{1}$ $|f_n(x) \simeq f_n(x^{(k)}) + \nabla f_n(x^{(k)})(x-x^{(k)})$ $\begin{cases} f_{1}(x^{(\kappa)}) + \nabla f_{1}(x^{(\kappa)}) & (x - x^{(\kappa)}) = 0 \\ f_{1}(x^{(\kappa)}) + \nabla f_{1}(x^{(\kappa)}) & (x - x^{(\kappa)}) = 0 \end{cases}$ $\begin{cases} f_{1}(x^{(\kappa)}) + \nabla f_{1}(x^{(\kappa)}) & (x - x^{(\kappa)}) = 0 \\ \vdots & (x^{(\kappa)}) + \nabla f_{1}(x^{(\kappa)}) & (x - x^{(\kappa)}) = 0 \end{cases}$ ربه مای مل دستاه (۲) دسته نیر ا مل دنم:

(4)

$$\chi^{(k+1)} = \chi^{(k)} - \begin{bmatrix} \nabla F_{1}(\chi^{(k)})^{T} \\ \nabla F_{2}(\chi^{(k)})^{T} \\ \vdots \\ \nabla F_{n}(\chi^{(k)})^{T} \end{bmatrix} \begin{bmatrix} F_{1}(\chi^{(k)}) \\ F_{2}(\chi^{(k)}) \\ \vdots \\ F_{n}(\chi^{(k)}) \end{bmatrix}$$

$$\downarrow^{(k+1)} \downarrow^{(k+1)} \downarrow^{(k+1)$$

$$F_{r}(x_{1},x_{2}) = (x_{1}-1)^{r} - x_{1} - 10 = 0$$

$$F_{r}(x_{1},x_{2}) = x_{1}^{r} + x_{2}^{r} - t = 0$$

$$\nabla F_{i}(x_{i},x_{i}) = \begin{bmatrix} Y(x_{i}-1) & -1 \end{bmatrix}$$

$$\nabla F_{i}(x_{i},x_{i}) = \begin{bmatrix} Y(x_{i}) & Ax_{i} \end{bmatrix}$$

$$\nabla F_{i}(x_{i},x_{i}) = \begin{bmatrix} Y(x_{i}-1) & -1 \\ Y(x_{i}) & Ax_{i} \end{bmatrix}$$

ىسى دنىلە مرار بەھرىت زىراىت :

$$\begin{bmatrix} x_1^{(k+1)} \\ x_2^{(k+1)} \end{bmatrix} = \begin{bmatrix} x_1^{(k)} \\ x_2^{(k)} \end{bmatrix} - \begin{bmatrix} y(x_1^{(k)} - 1) & -1 \\ y(x_1^{(k)} - 1) & \lambda x_1^{(k)} \end{bmatrix} \begin{bmatrix} F_1(x_1^{(k)}, x_1^{(k)}) \\ F_2(x_1^{(k)}, x_1^{(k)}) \end{bmatrix}$$

(N)

$$\begin{bmatrix}
x_{1}^{(c)} \\ x_{2}^{(c)}
\end{bmatrix} = \begin{bmatrix} x_{1} \\ y_{0} \end{bmatrix} - \begin{bmatrix} x_{1} \\ y_{0} \end{bmatrix} - \begin{bmatrix} x_{1} \\ y_{0} \end{bmatrix} = \begin{bmatrix} y_{1} \\ y_{0} \end{bmatrix} - \begin{bmatrix} y_{1} \\ y_{0} \end{bmatrix} = \begin{bmatrix} y_{1} \\ y_{0} \end{bmatrix} - \begin{bmatrix} y_{1} \\ y_{0} \end{bmatrix} = \begin{bmatrix} y_{1} \\ y_{0} \end{bmatrix} - \begin{bmatrix} y_{1} \\ y_{0} \end{bmatrix} + \begin{bmatrix} y_{1} \\ y$$

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$$\begin{array}{c} = \sum_{i=1}^{N} \frac{V_{i}^{T}(x_{i}, x_{i})}{V_{i}^{T}(x_{i}, x_{i})} = \begin{bmatrix} x_{i} & x_{i} \\ x_{i} & x_{i} \end{bmatrix} \\ = \sum_{i=1}^{N} \frac{V_{i}^{T}(x_{i}, x_{i})}{V_{i}^{T}(x_{i}, x_{i})} = \begin{bmatrix} x_{i} & x_{i} \\ x_{i} & x_{i} \end{bmatrix} \\ = \sum_{i=1}^{N} \frac{V_{i}^{T}(x_{i}, x_{i})}{V_{i}^{T}(x_{i}, x_{i})} = \begin{bmatrix} x_{i}^{T}(x_{i}, x_{i}, x_{i}) \\ x_{i}^{T}(x_{i}, x_{i}) \end{bmatrix} \\ = \sum_{i=1}^{N} \frac{V_{i}^{T}(x_{i}, x_{i})}{V_{i}^{T}(x_{i}, x_{i})} = \begin{bmatrix} x_{i}^{T}(x_{i}, x_{i}, x_{i}) \\ x_{i}^{T}(x_{i}, x_{i}) \end{bmatrix} \\ = \sum_{i=1}^{N} \frac{V_{i}^{T}(x_{i}, x_{i})}{V_{i}^{T}(x_{i}, x_{i})} = \begin{bmatrix} x_{i}^{T}(x_{i}, x_{i}, x_{i}) \\ x_{i}^{T}(x_{i}, x_{i}) \end{bmatrix} \\ = \sum_{i=1}^{N} \frac{V_{i}^{T}(x_{i}, x_{i})}{V_{i}^{T}(x_{i}, x_{i})} = \begin{bmatrix} x_{i}^{T}(x_{i}, x_{i}) \\ x_{i}^{T}(x_{i}, x_{i}) \end{bmatrix} \\ = \sum_{i=1}^{N} \frac{V_{i}^{T}(x_{i}, x_{i})}{V_{i}^{T}(x_{i}, x_{i})} = \begin{bmatrix} x_{i}^{T}(x_{i}, x_{i}) \\ x_{i}^{T}(x_{i}, x_{i}) \end{bmatrix} \\ = \sum_{i=1}^{N} \frac{V_{i}^{T}(x_{i}, x_{i})}{V_{i}^{T}(x_{i}, x_{i})} = \begin{bmatrix} x_{i}^{T}(x_{i}, x_{i}) \\ x_{i}^{T}(x_{i}, x_{i}) \end{bmatrix} \\ = \sum_{i=1}^{N} \frac{V_{i}^{T}(x_{i}, x_{i})}{V_{i}^{T}(x_{i}, x_{i})} = \begin{bmatrix} x_{i}^{T}(x_{i}, x_{i}) \\ x_{i}^{T}(x_{i}, x_{i}) \end{bmatrix} \\ = \sum_{i=1}^{N} \frac{V_{i}^{T}(x_{i}, x_{i})}{V_{i}^{T}(x_{i}, x_{i})} = \begin{bmatrix} x_{i}^{T}(x_{i}, x_{i}) \\ x_{i}^{T}(x_{i}, x_{i}) \end{bmatrix} \\ = \sum_{i=1}^{N} \frac{V_{i}^{T}(x_{i}, x_{i})}{V_{i}^{T}(x_{i}, x_{i})} \\ =$$

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