运筹学等邻准业 张锦程 2018012082

1.
$$J(X_{1},X_{2}) = 4X_{1} + 6X_{2} - 2X_{1}^{2} - 2X_{1}X_{2} - 2X_{2}^{2}$$

$$7J(X) = \left(\frac{1}{3}X_{1}, \frac{1}{3}X_{2}\right) = \left(4 - 4X_{1} - 2X_{2}, 6 - 2X_{1} - 4X_{2}\right)^{T}$$

$$\frac{J^{2}J}{JX_{1}JX_{2}} = \frac{J^{2}J}{JX_{1}JX_{1}} = -2$$

$$J^{2}J(X) = \begin{bmatrix} -4 & -2 \\ -2 & -4 \end{bmatrix}$$

$$J^{2}J(X) = \begin{bmatrix} -4 & -2 \\ -2 & -4 \end{bmatrix}$$

$$J^{2}J(X) = \begin{bmatrix} -\frac{1}{3} & \frac{1}{3}J \\ -\frac{1}{3}J & -\frac{1}{3}J \end{bmatrix}$$

$$\begin{array}{ll} (1) & \nabla_{1}^{1} N_{L1,177} = (-2,0)^{T} & D_{1} = \begin{bmatrix} \frac{1}{5} & -\frac{1}{6} \\ -\frac{1}{6} & \frac{1}{5} \end{bmatrix} L-2 & J^{T} = [-\frac{7}{5},\frac{1}{5}]^{T} \\ J(x^{0}+P_{1}t) = J(1-\frac{1}{5}t,1+\frac{1}{5}t) = 4t+\frac{1}{6}t-\frac{1}{5}t^{2}, \quad \frac{1}{5}t=\frac{1}{6}P_{1}J +\frac{1}{6}R_{2}t +\frac{1}{6}P_{2} \\ \end{array}$$

[5]
$$7 J(x)$$
[[] [] [(- \frac{13}{9}, 0) \frac{1}{9}]] $D_3 = [\frac{1}{2}, \frac{1}{2}] [1 - \frac{2}{9}, 0] = [- \frac{2}{9}, \frac{2}{9}] T$

$$J(X^4D_3 +) = J(\frac{2}{9} - \frac{2}{9} + \frac{49}{94} + \frac{2}{94} +) = \overline{J_4(2)} (114 + 9 - 1334 + - 1587 + 1)$$

$$J(x) = J(x) = J(x$$

2. $\frac{11x_1}{x_2} = 40 + \frac{10x_1^2}{10x_2^2} + \frac{16x_1x_2}{10x_2^2} + \frac{6x_1^2}{x_2} + \frac{16x_1x_2^2}{x_2^2} + \frac{16x_1}{x_2^2} + \frac{16x_1}{x_2^2} + \frac{16x_1}{x_2^2} + \frac{16x_1}{x_1^2} + \frac{12x_1x_2}{x_2^2} + \frac{16x_1x_1}{x_2^2} + \frac{16x_1x_1}{x_2^2} + \frac{16x_1x_1}{x_2^2} + \frac{16x_1x_1}{x_2^2} + \frac{16x_1x_1}{x_2^2} + \frac{16x_1x_1x_2}{x_2^2} + \frac{16x_1x_1x_1x_2}{x_2^2} + \frac{16x_1x_1x_1x_1x_2}{x_2^2} + \frac{16x_1x_1x_1x_2}{x_2^2} + \frac{16x_1x_1x_1x_2}{x_1^2} + \frac{16x_1x_1x_1x_$

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$$|x| + |x| |_{[-4,6]^{7}} = [-344,56]^{7}$$

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Li 范数:
$$7111) | 1-4,67^{7} = [-344,56]^{7}$$

$$d_{1} = 1, d_{2} = -1, D = [1,-1]$$