Abstract:
mathematical programming objective function
[1]
[2,3]

$$*(123)\begin{cases}\max\ f(x)\\ g_j(x)\le 0, j=1,2,\cdots,p\end{cases} \tag{1}$$

f $x=(x_1,x_2,\cdots,x_n)$

Definition .1 *In SOP, we call x a decision vector, and $x_1,x_2,\cdots,x_n$ decision variables. The function f is called the objective function. The set*

$$*(456)S=\left\{x\in\Re^n \;\middle|\; g_j(x)\le 0,\ j=1,2,\cdots,p\right\} \tag{2}$$

is called the feasible set. An element x in S is called a feasible solution.