Figure E.2

where $g(x_1,x_2)=x_1+x_2-1$. The circles show contours of the function $f(x_1,x_2)$, and the diagonal line shows the constraint surface $g(x_1,x_2)=0$. ers in which the aim is to maximize $f(x_1,x_2)=1-x_1^2-x_2^2$ subject to the constraint $g(x_1,x_2)=0$ A simple example of the use of Lagrange multipli-

