

Figure 1: Two variable quadratic function $C_1(x_1, x_2)$.

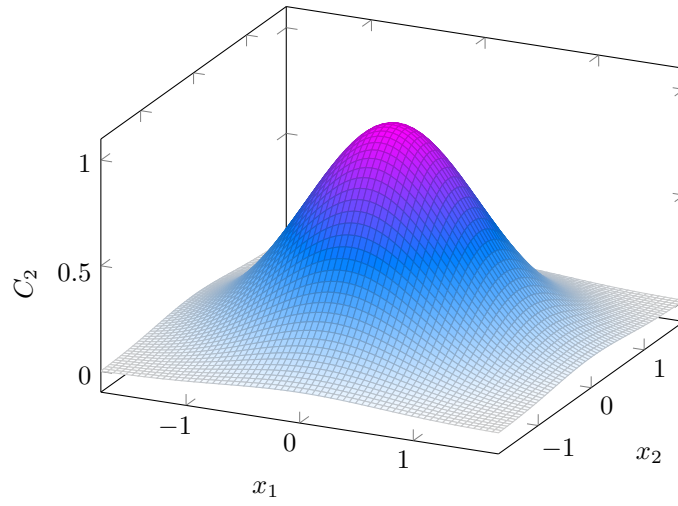


Figure 2: Two variable Gaussian function $C_2(x_1, x_2)$.

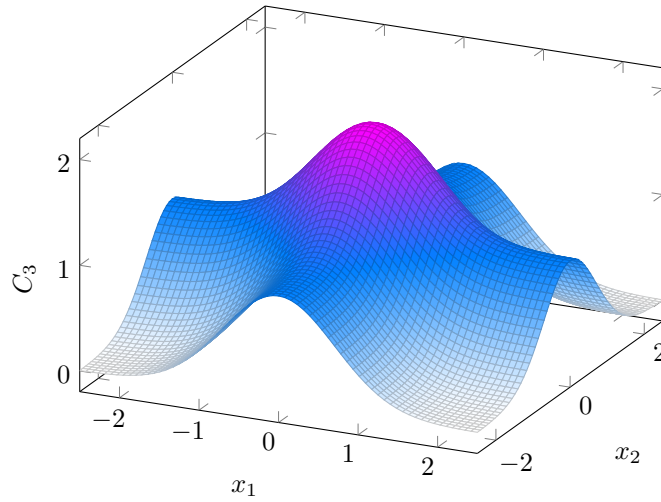


Figure 3: Modified version of Gaussian function $C_3(x_1, x_2)$.

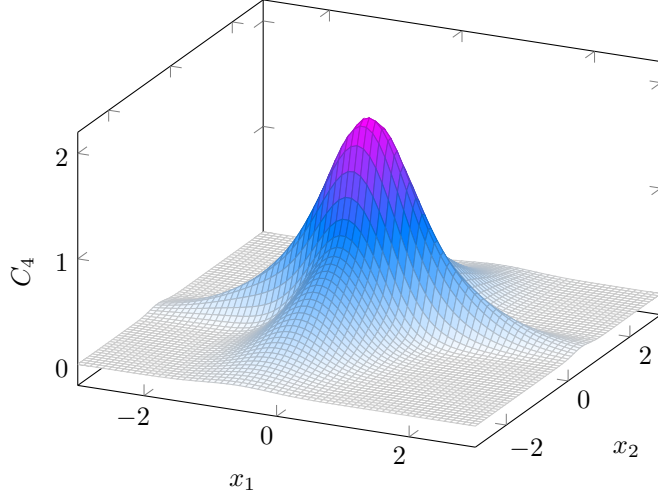


Figure 4: The proposed function $C_4(x_1, x_2)$ for $P = \begin{bmatrix} 0.448 & 0.308 \\ 0.308 & 0.338 \end{bmatrix}$ and $Q = \begin{bmatrix} 1.329 & -0.493 \\ -0.493 & 2.761 \end{bmatrix}$.

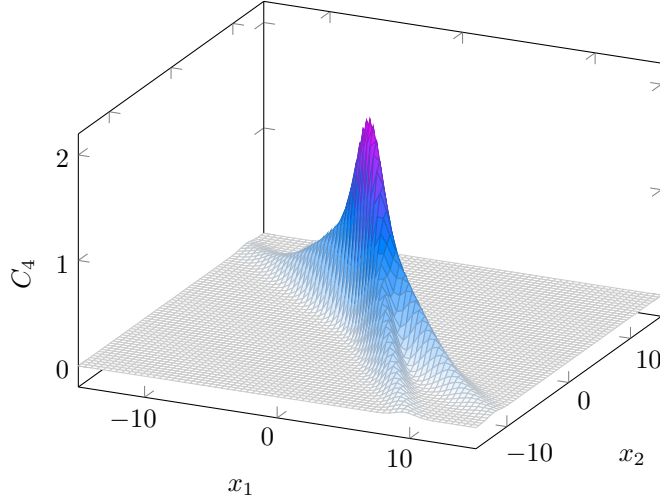
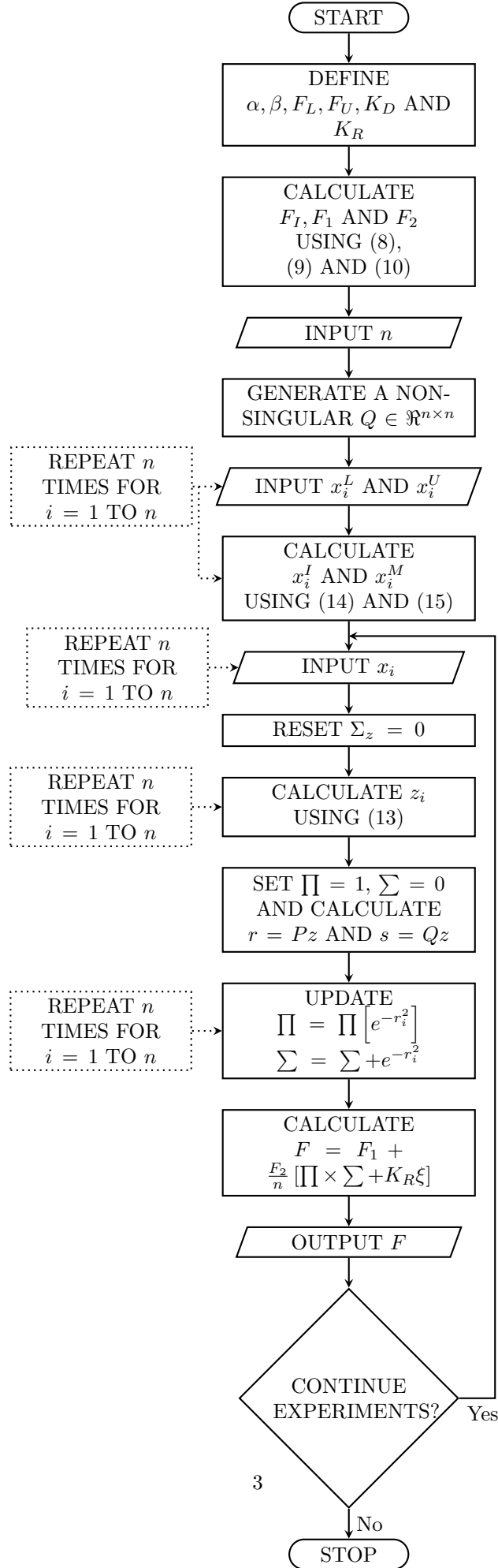


Figure 5: The proposed function $C_4(x_1, x_2)$ for $P = \begin{bmatrix} 0.1 & 0 \\ 0 & 0.1 \end{bmatrix}$, $Q = \begin{bmatrix} 0.979 & 0.636 \\ 0.636 & 0.773 \end{bmatrix}$.



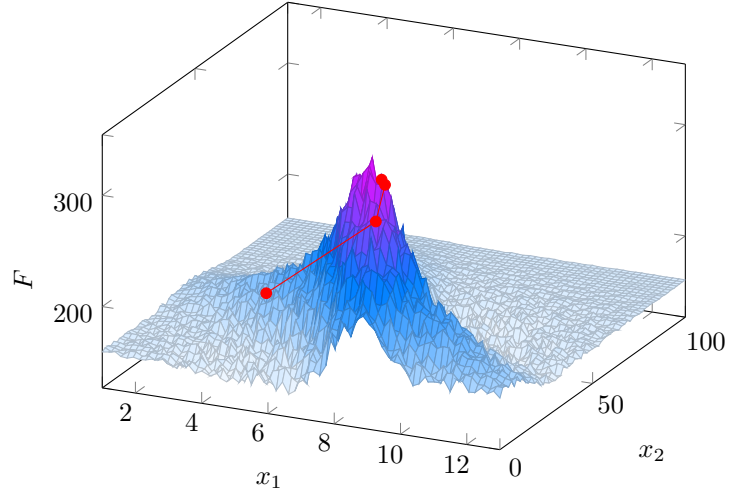


Figure 7: Surface plot of F with the constants given in Section ?? superimposed with the RSM results.

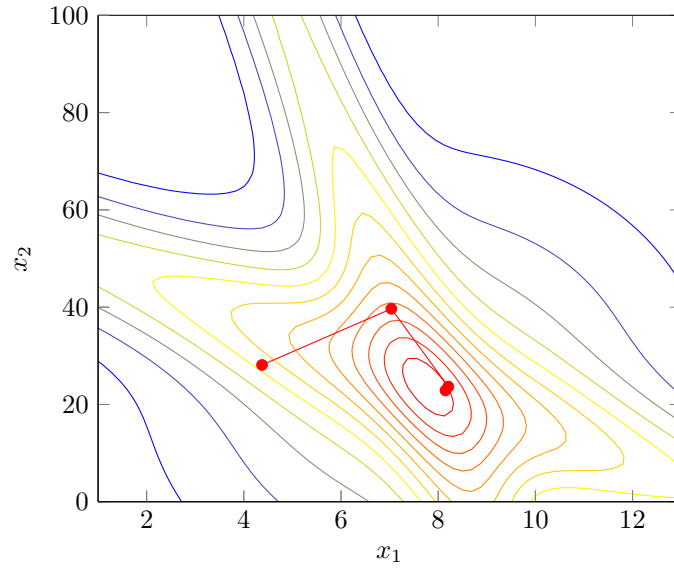


Figure 8: Contour plot of F with $K_R = 0$ and the other constants given in Section ?? superimposed with the RSM results.

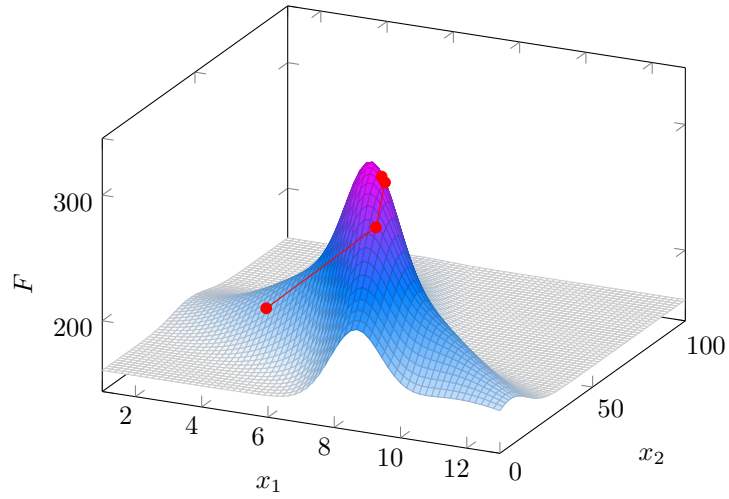


Figure 9: Surface plot of F with $K_R = 0$ and the other constants given in Section ?? superimposed with the RSM results.

1/1

5