a6report6

For this report, the Rossler Attractor system was analyzed with initial conditions of $\{X,Y,Z\}(0) = \{0.001, 0.001, 0.001\}$, a = 0.25, b = 1, and a variable c. As c is increased in the from 5.5 to 10, it appears that the maximum deflection in the z direction increases, as is shown in *Figures 1-4*. Additionally, it can be seen that the trend seems to be that as c increases, the periodic paths within the system seem to collapse to fewer individual paths. This can be seen with four distinct bundles in the arc of *Figure 2* compared to the two bundles of *Figure 4*.

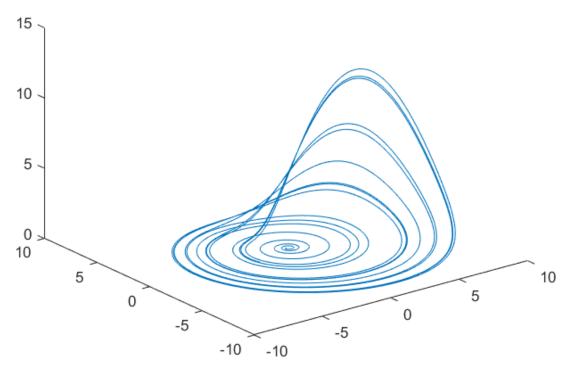


Figure 1. Rossler Attractor where a = 0.25, b = 1, and c = 5.5

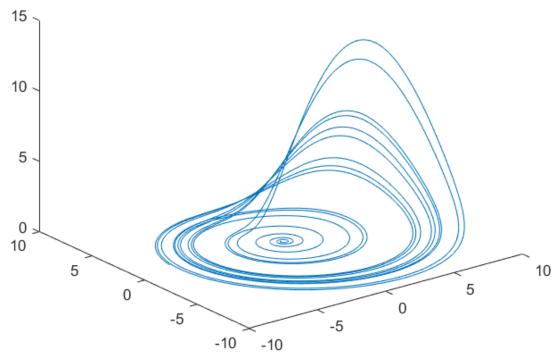


Figure 2. Rossler Attractor where a = 0.25, b = 1, and c = 6

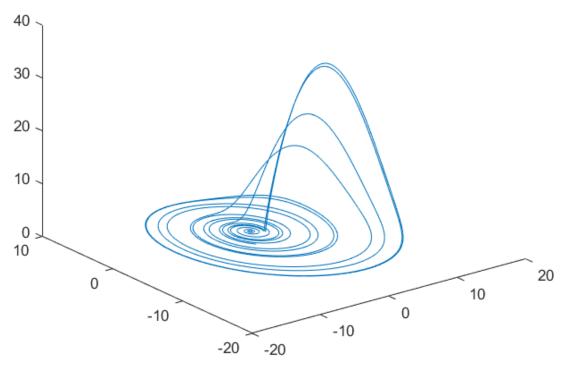


Figure 3. Rossler Attractor where a = 0.25, b = 1, and c = 8

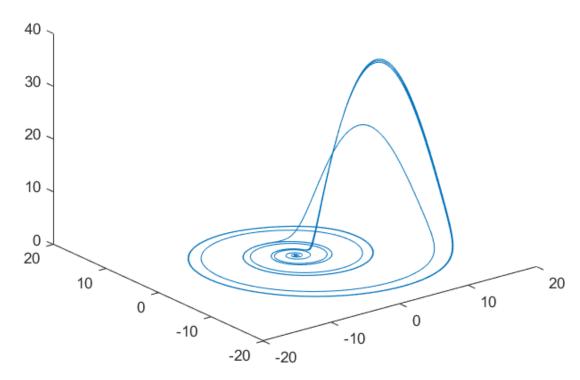


Figure 4. Rossler Attractor where a = 0.25, b = 1, and c = 10