Contour

In [1]:

```python
import numpy as np
import matplotlib.pyplot as plt
```

In [2]:

```python
x4 = np.linspace(-5,5,50)
y4 = np.linspace(-5,5,50)
```

In [3]:

```python
# Plotting Contour using sqrt
plt.figure(figsize=[15,10])

ax = plt.axes(projection="3d")
ax.set_title("3D Contour using Square Root Function", fontsize=16)
ax.set_xlabel("X Data Points", fontsize=14)
ax.set_ylabel("Y Data Points", fontsize=14)
ax.set_zlabel("Z Data Points", fontsize=14)

x4,y4 = np.meshgrid(x4,y4)

ax.contour3D(x4,y4,np.sin(np.sqrt(x4 ** 2 + y4 ** 2)), 100, alpha=0.7, cmap="plasma")

plt.show()
```
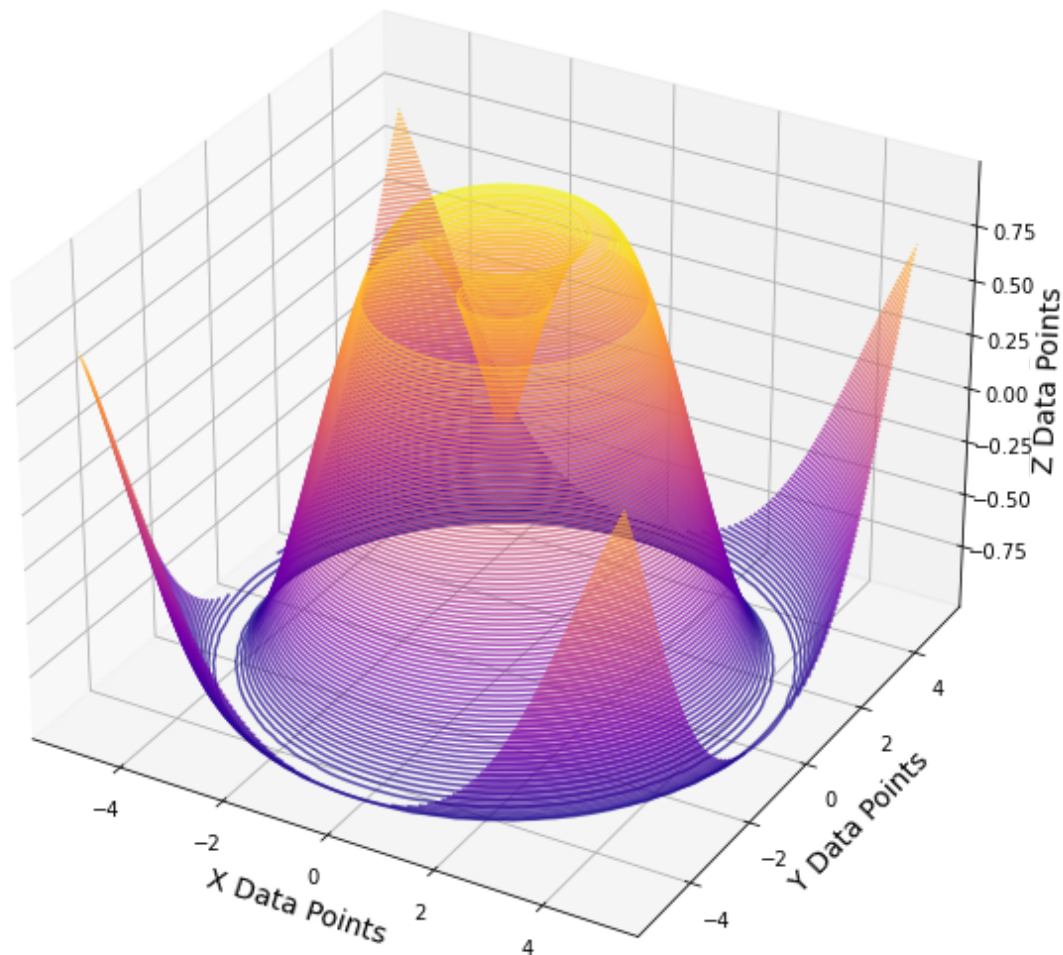

3D Contour using Square Root Function

In [4]:

```python
# Plotting Contour using cbrt
plt.figure(figsize=[15,10])

ax = plt.axes(projection="3d")
ax.set_title("3D Contour using Cube Root Function", fontsize=16)
ax.set_xlabel("X Data Points", fontsize=14)
ax.set_ylabel("Y Data Points", fontsize=14)
ax.set_zlabel("Z Data Points", fontsize=14)

#x4,y4 = np.meshgrid(x4,y4)

ax.contour3D(x4,y4,np.sin(np.cbrt(x4 ** 3 + y4 ** 3)), 100, alpha=0.7)

plt.show()
```