

```
Error=(X_analytical_heat-X_heat)
```

```
Error = 5000x70
```

```
0      0      0      0      0      0      0      0 ...
0 -0.0032 -0.0062 -0.0087 -0.0107 -0.0119 -0.0124 -0.0120
0 -0.0062 -0.0120 -0.0170 -0.0209 -0.0233 -0.0242 -0.0235
0 -0.0091 -0.0176 -0.0249 -0.0306 -0.0342 -0.0355 -0.0345
0 -0.0119 -0.0229 -0.0325 -0.0398 -0.0445 -0.0462 -0.0450
0 -0.0145 -0.0280 -0.0396 -0.0486 -0.0543 -0.0565 -0.0550
0 -0.0170 -0.0328 -0.0464 -0.0570 -0.0637 -0.0663 -0.0645
0 -0.0193 -0.0374 -0.0529 -0.0649 -0.0726 -0.0756 -0.0736
0 -0.0216 -0.0417 -0.0591 -0.0725 -0.0811 -0.0844 -0.0823
0 -0.0237 -0.0459 -0.0649 -0.0797 -0.0892 -0.0928 -0.0905
⋮
```

```
surf(x_vals_heat,t_vals_heat(1:800),Error(1:800,:), "LineStyle","none", "FaceColor","f  
lat")
```

