

Appendix B: Data

```

//=====
// Surface Data for the case presented in the Thesis
//
//datasurf_01
//=====
5 5
0.1758867      0.3727672      -0.8716827
0.1758867      0.4521988      -0.7651400
0.1758867      0.4565025      -0.4804196
0.1758867      0.4182157      -0.2723532
0.1758867      0.3697031       0.0000000

0.3801900      0.4559523      -0.8716827
0.3836772      0.4350791      -0.6778637
0.3866338      0.4838482      -0.4876116
0.3901930      0.4421918      -0.2714187
0.3950927      0.3732548       0.0000000

0.5586069      0.4657251      -0.8716827
0.5690655      0.4882417      -0.7472271
0.5865946      0.4503255      -0.5251875
0.6037391      0.4139718      -0.2942185
0.6300549      0.3112981       0.0000000

0.7858568      0.4455967      -0.8716827
0.7967968      0.4470726      -0.7111665
0.8091515      0.4436734      -0.5287200
0.8229307      0.4537830      -0.3084870
0.8469166      0.3514610       0.0000000

1.002429       0.4167407      -0.8716827
1.002429       0.3842338      -0.6574640
1.002429       0.4094689      -0.4001638
1.002429       0.4119720      -0.1928963
1.002429       0.3697031       0.0000000

```

```

//=====
// Data for more number of surfaces
//=====

//-----
// datasurf_02
//-----
5 5

0.0 1.0 0.2
0.3827 0.9239 0.0
0.707 0.707 0.0
0.9239 0.3827 0.0
1.0 0.0 0.2

0.0 1.0 -0.25
0.382 0.923 -0.25
0.707 0.707 -0.25
0.923 0.382 -0.25
1.0 0.0 0.2

0.0 0.9 -0.5
0.37 0.91 -0.5
0.707 0.707 -0.5
0.91 0.37 -0.5
1.0 0.1 -0.5

0.0 1.0 -0.75
0.382 0.923 -0.75
0.707 0.707 -0.75
0.923 0.382 -0.75
1.0 0.0 -0.75

0.0 1.0 -1.2
0.3827 0.9239 -1.0
0.707 0.707 -1.0
0.9239 0.3827 -1.0
1.0 0.0 -1.2

```

```

//-----
// datasurf_03
//-----
5 5

-0.4957712      0.0      0.0
-0.3543068      0.0      0.3569750
-0.0003123337  0.0      0.5057411
 0.3536859      0.0      0.3569840
 0.4957712      0.0      0.0

-0.4957712      0.2500000  0.0
-0.3543068      0.2500000  0.3569750
-0.0003123337  0.2500000  0.5057411
 0.3536859      0.2500000  0.3569840
 0.4957712      0.2500000  0.0

-0.4957712      0.5000000  0.0
-0.3543068      0.5000000  0.3569750
-0.0003123337  0.5000000  0.5057411
 0.3536859      0.5000000  0.3569840
 0.4957712      0.5000000  0.0

-0.4957712      0.7500000  0.0
-0.3543068      0.7500000  0.3569750
-0.0003123337  0.7500000  0.5057411
 0.3536859      0.7500000  0.3569840
 0.4957712      0.7500000  0.0

-0.4957712      1.0000000  0.0
-0.3543068      1.0000000  0.3569750
-0.0003123337  1.0000000  0.5057411
 0.3536859      1.0000000  0.3569840
 0.4957712      1.0000000  0.0

```

```

//-----
// datasurf_04
//-----
5 5

1.134954      -0.3218720      0.0
0.7363740     -0.2163909      0.0
0.2597904     -0.3276731      0.0
-0.1964278    -0.1052186      0.0
-0.6576593    -0.3218720      0.0

1.134954      -0.08792621     -0.3854933
0.7146351      0.02040991     -0.3866745
0.2462400     -0.06648563     -0.3878227
-0.2062068     0.1015451      -0.3889734
-0.6576593    -0.06607500     -0.3901115

1.134954      -0.2348713      -0.8655395
0.6970761     -0.1271856      -0.8681850
0.2381998     -0.2079591      -0.8707197
-0.2146302    -0.09953369     -0.8732621
-0.6576593    -0.2275111      -0.8757639

1.134954      -0.1284715      -1.351448
0.6858575     -0.03444175     -1.357146
0.2365695     -0.1263914      -1.362610
-0.2195418    -0.09174450     -1.368128
-0.6576593    -0.1943903      -1.373533

1.134954      -0.2204360      -1.841410
0.6885296     -0.1244909      -1.841410
0.2427427     -0.1999188      -1.841410
-0.2140157    -0.2255649      -1.841410
-0.6576593    -0.2820410      -1.841410

```

```
//=====
// Trim data for the five cases considered in this thesis
//
// datatrim_01
//=====
21
1.00 0.00
1.00 0.20
1.00 0.40
1.00 0.60
1.00 0.80
1.00 1.00
1.00 1.20
1.00 1.40
1.00 1.60
1.00 1.80
1.00 2.00
1.00 2.20
1.00 2.40
1.00 2.60
1.00 2.80
1.00 3.00
1.00 3.20
1.00 3.40
1.00 3.60
1.00 3.80
1.00 4.00
```

```
//-----  
// datatrim_02  
//-----
```

```
21  
1.00 0.00  
1.10 0.20  
1.20 0.40  
1.30 0.60  
1.40 0.80  
1.50 1.00  
1.60 1.20  
1.70 1.40  
1.80 1.60  
1.90 1.80  
2.00 2.00  
2.10 2.20  
2.20 2.40  
2.30 2.60  
2.40 2.80  
2.50 3.00  
2.60 3.20  
2.70 3.40  
2.80 3.60  
2.90 3.80  
3.00 4.00
```

```
//-----  
// datatrim_03  
//-----
```

```
21  
1.50 0.00  
1.50 0.20  
1.50 0.40  
1.50 0.60  
1.70 0.80  
1.80 1.00  
1.88 1.20  
1.94 1.40  
1.98 1.60  
2.00 1.80  
2.01 2.00  
2.00 2.20  
1.98 2.40  
1.94 2.60  
1.88 2.80  
1.80 3.00  
1.70 3.20  
1.50 3.40  
1.50 3.60  
1.50 3.80  
1.50 4.00
```



```
//-----  
// datatrim_04  
//-----
```

```
21  
4.00 0.00  
4.00 0.20  
4.00 0.40  
4.00 0.60  
4.00 0.80  
4.00 1.00  
4.00 1.20  
4.00 1.40  
4.00 1.60  
4.00 1.80  
4.00 2.00  
3.80 2.20  
3.60 2.40  
3.40 2.60  
3.20 2.80  
3.00 3.00  
2.80 3.20  
2.60 3.40  
2.40 3.60  
2.20 3.80  
2.00 4.00
```

```
//-----  
// datatrim_05  
//-----
```

```
21  
0.00 0.00  
0.20 0.20  
0.40 0.40  
0.60 0.60  
0.80 0.80  
1.00 1.00  
1.20 1.20  
1.40 1.40  
1.60 1.60  
1.80 1.80  
2.00 2.00  
2.20 2.20  
2.40 2.40  
2.60 2.60  
2.80 2.80  
3.00 3.00  
3.20 3.20  
3.40 3.40  
3.60 3.60  
3.80 3.80  
4.00 4.00
```