Appendix D: Example of an ASCII Flux-Field Input File (Heterogeneous)

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** DO YOU HAVE HOMOGENEOUS GEOMETRICAL PROPERTIES? (T/F) **
F
** TITLE OF THE TEST RUN **
'CONSTANT FIELD FOR CONVECTION-DISPERSION-DECAY IN 1D TEST'
** TIME STEP SIZE (Sec.) AND NUMBER **
8.64E5      40
** # OF GRID BLOCKS IN X,Y,Z **
60    1    1
** DIMENSION (M) OF GRID BLOCKS IN X **
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
** DIMENSION (M) OF GRID BLOCKS IN Y **
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
** DIMENSION (M) OF GRID BLOCKS IN Z **
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0  20.0
** POROSITY OF THE MATRIX GRID BLOCKS **
0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2
0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2
0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2
0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2
0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2
0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2  0.2

** SATURATION OF THE MATRIX GRID BLOCKS **
1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0
1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0
1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0
1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0
1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0
1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0
** MATRIX VELOCITY (M/s) FIELD IN X-DIRECTION **
0.0    1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6
1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6
1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6
1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6
1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6
1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6  1.E-6
** MATRIX VELOCITY (M/s) FIELD IN Y-DIRECTION **
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
** MATRIX VELOCITY (M/s) FIELD IN Z-DIRECTION **
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0
** MATRIX GRID BLOCKS FLUID TEMPERATURE (K) **
300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0
```

```
300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0
300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0
300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0
300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0
300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0  300.0
** MATRIX GRID BLOCKS FLUID VISCOSITY (Pa.Sec)  **
1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2
1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2
1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2
1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2
1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2
1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2  1.E-2
```