



DESIGN, SIMULATION & OPTIMIZATION
OF NOVEL META-MATERIALS

Heat Transfer Meta-Material Design Beta Module

Installation and Usage Guide

1. Download the archive file and extract it.
2. Set the following environment variable:

```
ANS_USER_PATH (or ANS_USER_PATH_241) path-to-folder (no quotes!)
```

3. Inside Mechanical, in the Geometry submenu select the body, right click → Insert Commands and type:

```
TB,USER,matID,1,5,THERM  
TBDATA,1,d,H,L,y,specht
```

Where `matID` is the material ID for the body; `d`, `H`, `L`, `y` are the geometrical characteristics of the unit cell; and `specht` is the specific heat.

4. Once the simulation is finished, check that in the Solution Information there are the following lines:

```
User Link path (ANS_USER_PATH) :  
Path-to-folder (as specified in the environment variable)
```