

APPENDIX D

MATLAB[®] GUI for project template

The supplementary files (available on request from the publisher by emailing books@theiet.org) include a base code for Chapters 12–16 in the “codelisting\Appendix_D” folder. Also placed in this folder is a utility code with a graphical user interface (GUI), named as *create_project_template*, which helps the user create template definition files for a new project. Running the file *create_project_template.m* in MATLAB will launch the GUI shown in Figure D.1 below. Here the user can specify some properties of the project such as simulation parameters, cell sizes, boundary conditions, types of objects, sources, lumped components, and output parameters. Also, the user enters a name for the project. Clicking on the “create template file” button will generate a folder with a name which is the same as the project name that includes the problem definition files. These files are not complete yet they can be used as template files to define the problem for which the simulation is sought: the user can open these problem definition files and complete them with the details. With this code organization, the problem definition files for each project

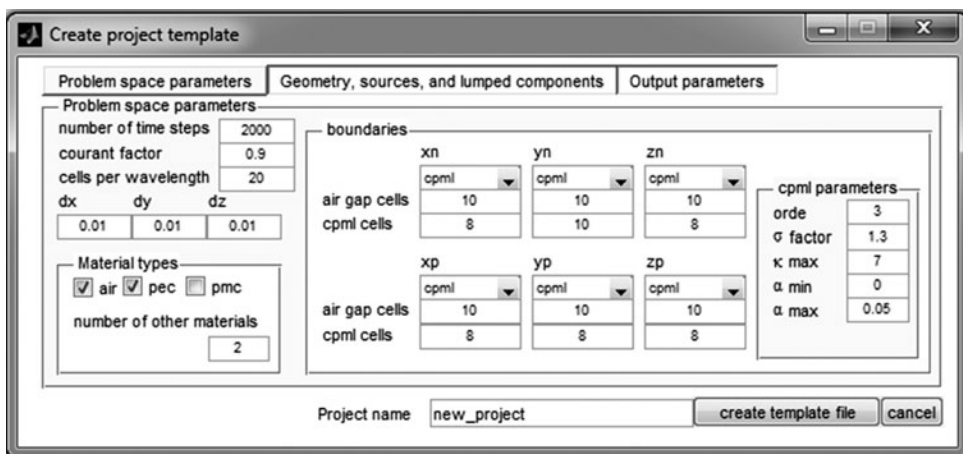


Figure D.1 The GUI to create template problem definition files for a project.