nextnano.NEGF - General remarks

nextnano.NEGF is a console application that is run from within the nextnanomat software (GUI). Alternatively, it can be executed from the command line. The input file specifies the device that shall be simulated.

nextnanomat

nextnanomat is a convenient graphical user interface for nextnano.NEGF. It is included in the nextnano.NEGF package, and can also be downloaded from here. It can visualize 1D, 2D and 3D simulations results.

Input file

The input file specifies all properties of the device, such as geometry, material composition, temperature, grid,... Furthermore, it sets all parameters that are needed to define the program flow of nextnano.NEGF. The keywords that can be used for this purpose are defined in the syntax of the input file.

Variable sweep

The nextnanomat graphical user interface allows to sweep variables from the input file.

Output

nextnano.NEGF exports its results to a directory. The output files are documented here.

Examples

The nextnano.NEGF installation provides some example tutorials that can be run with nextnanomat, to get familiar with the program.

Database

All material properties that are needed for simulation are described here.

Download

The software can be obtained from here.

If you have further questions, see the FAQ or contact support@nextnano.com.

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