StateMint Documentation

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Contents:

This module provides convenience functions for turning symbolic matrices into Numpy matrices for simulation and analysis.

StateMint.to_numpy.**array**(*data*, *values={}*)

Convert a symbolic matrix to a Numpy array.

Converts a given symbolic matrix, most likely returned in the output of *StateMint.Solve*, into a Numpy array.

Parameters

- **data** (*sympy.Matrix*) – The symbolic matrix to convert to a Numpy array.
- **(dict of str** (*values*) – float, optional): The values to replace each symbolic variable with in a dictionary with the key as a string of the variable name, and the value as the number to replace it with

Returns A Numpy array of the matrix using the values given

Return type numpy.ndarray

StateMint.to_numpy.**matrix**(*data*, *values={}*)

Convert a symbolic matrix to a Numpy matrix.

Converts a given symbolic matrix, most likely returned in the output of *StateMint.Solve*, into a Numpy matrix.

Parameters

- **data** (*sympy.Matrix*) – The symbolic matrix to convert to a Numpy matrix.
- **(dict of str** (*values*) – float, optional): The values to replace each symbolic variable with in a dictionary with the key as a string of the variable name, and the value as the number to replace it with

Returns A Numpy matrix using the values given

Return type numpy.matrix

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