

Read Data Models

Name	Description
ReadDataModel	Read and validate a thermoeconomic data model file.
ValidateModelTables	Validate and convert tabular data model files.
CopyDataModel	Copy and convert a data model file to a different format.
ImportDataModel	Load a cDataModel object from a MAT file.
ImportData	Import external tabular data from CSV or Excel files.

Thermoeconomic Results

Name	Description
ThermoeconomicModel	Create a cThermoeconomicModel object from a data model.
ProductiveStructure	Extract and display productive structure information from a data model.
ProductiveDiagram	Generate graph adjacency tables for productive structure visualization.
ExergyAnalysis	Perform exergy analysis for a specific plant operating state.
ThermoeconomicAnalysis	Perform thermoeconomic cost analysis of a plant operating state.
ThermoeconomicDiagnosis	Detect and quantify malfunctions by comparing plant operating states.
DiagramFP	Generate annotated fuel-product diagrams with exergy flows and costs.
WasteAnalysis	Analyze waste cost allocation and recycling optimization strategies.
SummaryResults	Generate comparative summary tables across multiple operating conditions.

Save Results

Name	Description
SaveDataModel	Save thermoeconomic data model to file in various formats.
SaveResults	Export result tables to file in multiple formats.
SaveSummary	Export summary comparison tables for multiple states or cost samples.
SaveTable	Export a single table to file in various formats.

Display Results

Name	Description
ListResultTables	Display catalog of available result tables and their properties.
ShowGraph	Display graphical visualizations of thermoeconomic analysis results.
ShowResults	Display and save result tables from thermoeconomic analyses.
ShowTable	Display, export, and save individual result tables.
ExportResults	Export result tables to various MATLAB data formats.

GUI Functions

Name	Description
TaesTool	Compatible user interface App for MATLAB/Octave.
TaesPanel	Graphical user interface for selecting thermoeconomic model parameters.
ResultsPanel	Graphical user interface for displaying results interactively.
ViewResults	MATLAB app for displaying results tables.