

Changes to the chemplants package

Elia Arnese Feffin

2019/11/19

Version 0.7.0 – 2019/02/13

- The chemplants package sees the light for the first time.
- First writing of the documentation.

Version 0.8.0 – 2019/02/19

- Implementation of the anchor coordinates nodes in the units code.
- Rewriting of the documentation with coordinate nodes.
- New example using coordinate nodes: absorption and stripping integration.

Versione 0.8.1 – 2019/02/20

- Bug fixed: coordinates node are not sensible to the global scale factor.

Version 0.8.2 – 2019/02/20

- New units: `lamination valve`, `inlet`, `outlet` and `block`.
- Bibliography updating: TikZ version 3.1.1.

Version 0.8.5 – 2019/02/21

- New units: `cyclone`, `stirred reactor`, `packed bed reactor` and `film reactor`.
- Units order is changed and categories (documentation sections) have been inserted into the `.sty` file.

Version 0.9.0 – 2019/02/22

- New definition of `centrifugal pump` and bottom node addition.
- New units: `rotary pump`, `liquid ring pump`, `reciprocating pump`, `fan`, `centrifugal compressor`, `rotary compressor`, `reciprocating compressor`, `multistage compressor` and `ejector`.

Version 0.9.1 – 2019/02/24

- New units: cone tank, dome tank, floating roof tank, bell gasholder and dry gasholder.

Version 0.9.2 – 2019/02/25

- Review of the `film reactor` symbol.
- Review of the `heat exchangers` node names, now defined as shell and pipes for the sake of clearance.

Version 0.9.3 – 2019/02/26

- Review of the `cyclone` node names
- New units: `fluidized bed reactor`, `steam trap`, `scrubber`, `stratifier` and `settler`.

Version 0.9.4 – 2019/02/26

- New units: `gas-liquid separator`, `kettle boiler`, `tube bundle evaporator`, `basket evaporator`, `climbing film evaporator`, `stirred crystallizer` and `pipe bundle crystallizer`.

Version 0.9.5 – 2019/03/03

- Review of the `kettle boiler` node names.
- Review of the code to draw packings: no more sharp knees protruding around units
- Added a TikZ library to access to the Hobby's algorithm.
- New units: `air heat exchanger`, `tube bundle heat exchanger`, `plates heat exchanger`, `spiral heat exchanger` and `pipe furnace`.

Version 0.9.6 – 2019/03/04

- Review of the `stirred reactor` and `stirred crystallizer` node names: now the end of the stirrer is called `shaft`.
- New units: associative pics for reactors, which are `tank reactor`, `jacket`, `stirrer`, `coil`, `sprayer`, `bubbler` and `packing`.

Version 0.9.7 – 2019/11/18

- Documentation language revision: thanks to Desi Costa for the help.
- Now also the source code of the documentation is provided with the package.
- Changes are written in a more gracious format.
- Review of the `plates heat exchanger`: now it is called `plate heat exchanger`.

- Review of the `pipe furnace` node names: now the ends of the pipes are called `pipes left` and `pipes right`.
- Review of the `film reactor`: now it is called `tube bundle reactor`.
- Review of the `utility stream` style: the default thickness is now `very thin`.
- Review of the `signal` style: the default thickness is now `very thin` and the algorithm to place markings has changed.
- New stream style: `secondary stream` (provided of thickness customisation command).
- Review of `valve` and `valve triple`: these units now accept a new argument for `secondary streams` thickness.
- Review of `actuator`: dimensions of this units are now doubled.
- New units: `valve quadruple`, `safety valve`.

Version 0.9.8 – 2019/11/19

- The chemplants package is ready to be officially published since, though not complete as I wish, it is mature enough.
- The package is now explicitly covered by the L^AT_EX Project Public License (LPPL), versione 1.3c.
- The bibliography database is no more supplied, since it has been embedded into the source file of the documentation.