MOSAICmodeling Workshop

October 9, 2024, at TU Berlin

MOSAICmodeling ...

- is a free, web-based environment for modeling, simulation, and optimization in process systems engineering;
- uses a LaTeX-style entry method to narrow the gap between documentation and computational description;
- allows the formulation of algebraic as well as ordinary and partial differential equations, which can the be combined to whole equation systems;
- combines several state-of-the-art techniques to support cooperation between different software infrastructures;
- provides code generation for the most common numeric environments, e.g., AMPL, GAMS, gPROMS, MATLAB, Python, and JULIA.

Further information on MOSAICmodeling: https://mosaic-modeling.de

Agenda for the Workshop

1.00 – 1.15 pm: Move from CAPE-OPEN Annual Meeting to Workshop (KWT-N 207)
1.15 – 1.45 pm: Quick Introduction to MOSAICmodeling / Essentials for Newbies
1:45 – 2.15 pm: Exporting Models as Unit Operations
2.15 – 2.30 pm: *Coffee break*
2.30 – 3.00 pm: "UDLS" - Exporting Models to any Simulation or Optimization Environment
3.00 – 3.30 pm: Steady-state flash with CAPE-OPEN Thermodynamics
3.30 – 4.00 pm: Q&A Session

Contacts for Further Information

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