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REX Suite version 3.5
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This document summarizes important additions in REX Suite 3.5
Additions are documented since REX Suite 3.4

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1. New Features

A new solver CONOPT4 is available now. The CONOPT4 solver may be useful for large models where we have found substantial speed improvements compared to CONOPT3. On average, CONOPT4 seems faster. Regarding reliability, there are models where CONOPT4 fails while CONOPT3 succeeds and vice versa. For now, CONOPT3 is the default choice.

In Estimation->Results->Profiles node, you may now select whether to show the phase values of compounds as concentrations, moles or partial pressure. This is useful for multiphase (and membrane) reactors when you wish to see the molar amounts (instead of concentrations) in each phase.

The Estimation->Results->Profiles node is also shown for CSTR reactors.

In Library, after executing the 'Export Marked to Projects' action, the projects are automatically unmarked in the Library.

The solution progress screen in REX has been revised to solve the freeze encountered in some cases on Windows 10.

The Help document has been revised to clearly explain the initial condition specification for multiphase reactors. New help examples illustrate how Energy balance models can be used in fed-batch reactors and multi-feed CSTR reactors.

Model consistency checks have been improved for membrane reactors. For example, if there is no sweep gas compound, you will be alerted to enter one when running the model.

2. Changes and Bug fixes

In addition to the above, this version also includes improvements to the installation and minor bug fixes.