

# CHEMICAL SYSTEM MODELING

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## OVERVIEW

- Modelling and simulation - developing a level of understanding of the behavior of the parts of a system, and of the system as a whole.
- Model - mathematical representation of the **system** at some particular point in time and/or helps to understand the real system
- System - consists of components (or elements) connected together and facilitates the flow of information, matter and energy
- Chemical system - is composed of chemical unit operations, such as distillation columns, **chemical reactors**, evaporators, heat exchangers etc.

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## MATHEMATICAL MODELING

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# Mathematical Modeling In Chemical Eng

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