



STEADY STATE & DYNAMIC CHEMCAD SIMULATION SOFTWARE

2 Day Seminar Programme



CHEMCAD Basics and Steady State Simulation

Day 1	<p><u>Introduction</u> MNL501 Review of CHEMCAD, CC-BATCH, CC-ReACS, CC-DCOLUMN and CC-THERM Folder / file handling - tool bars - function keys - zip - import/export - help</p> <p><u>Fundamentals</u> MNL501 Flowsheet - units - components - calculation - convergence - simulation -report - PFD Flash fundamentals and process applications</p> <p><u>Report Handling</u> Excel mapping feature for reporting and model enhancements Exporting data to Windows applications</p> <p><u>Thermodynamics</u> MNL031 Component physical property plots and reports MNL035 User component & aqueous mixture - physical property regression and predictions MNL049 Thermodynamics model selection - expert system Phase equilibrium ideal and non ideal mixtures</p> <p><u>Fluid Flow & Piping Systems</u> Review of the capabilities and applications MNL063 Fluid flow in pipes, valves, fittings and pumps – sizing and rating networks</p>
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Dynamic Simulation

Day 2	<p><u>Introduction</u> MNL061 Set up flowsheet, run dynamic models (Direct/Indirect Flow Regulation) MNL055 Process and Instrumentation control refresher MNL061 p19 Setting up a tank level control model (Level Control 1 and 2)</p> <p><u>Relief System Sizing and Dynamic Behaviour</u> MNL043 Relief system sizing fundamentals and review of validation cases (API & Diers) MNL058 Relief network sizing and dynamic relief system cases (RELIEFNET, DIERS2DVSL)</p> <p><u>Batch Distillation</u> MNL061 p53 Dynamic batch distillation - CC-BATCH module (Batch Distillation 1) MNL061 p57 Batch distillation using dynamic batch reactor and column module(Batch Distillation 2)</p> <p><u>Batch Reactors</u> MNL063 Batch reactor direct jacket temperature control(Direct Cool with Reaction) Modelling of typical temperature control modules (Direct & Indirect Modes) MNL062 p19 Exothermic reaction thermal stability in stirred reactor (RXDOWJ)</p>
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