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Distillation Tray Design Manual

Ernest E. Ludwig



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Bubble-tray Design Manual American Institute of Chemical Engineers. Research Committee,1958

AIChE Equipment Testing Procedure - Trayed and Packed Columns American Institute of Chemical Engineers (AIChE),2014-02-03 AIChE manual updates and consolidates procedures for testing performance of distillation columns From classic distillation operations to air stripping to other separations processes selecting the correct column for appropriate efficient safe and environmentally sound operations can be an important step The newest updated volume in AIChE s long running Equipment Testing Procedures series Trayed and Packed Columns A Guide to Performance Evaluation Third Edition provides chemical engineers plant managers and other professionals with helpful advice to assess and measure performance of a variety of distillation columns including those

that utilize bubble cap sieve valve trays or packing material The new book combines and updates into one user friendly volume the best available field knowledge from previous publications on both types of distillation columns Designed not as a single set of compulsory steps but as a compilation of techniques it will allow the user to select the procedure that best applies to its operating parameters The testing steps presented can be used to assess reliable performance data on mass transfer efficiency capacity energy consumption and pressure drop information essential to effective troubleshooting of performance problems identifying capacity bottlenecks determining operating ranges and a number of other routine maintenance and optimization processes Opening with an extensive definition section organized by topical area the book then goes on to address Selection of instrumentation and identification of elements to be measured Pre test planning procedures Strategies for data collection and evaluation including sampling procedures Pre test in test and post test considerations equipment safety process environmental Computation and interpretation of results including individual breakdowns for trayed and packed columns in terms of hydraulic and efficiency performance Test troubleshooting analysis in twelve key areas The book concludes with appendices for relevant symbols and nomenclature plus sample calculations generated from performance tests With its engineer tested procedures and thorough explanations Trayed and Packed Columns A Guide to Performance Evaluation Third Edition is an essential text for anyone engaged in implementing new technology in equipment design identifying process problems and optimizing equipment performance

Applied Process Design for Chemical and Petrochemical Plants Ernest E. Ludwig, 1995 Updated to include technological and process developments in heat transfer refrigeration compression and compression surge drums this text emphasises how to apply techniques of process control and how to interpret results into equipment details

Rules of Thumb for Chemical Engineers Carl Branan, 2002 Fractionators separators and accumulators cooling towers gas treating blending troubleshooting field cases gas solubility and density of irregular solids Hundreds of common sense techniques shortcuts and calculations

Process Engineering and Design Using Visual Basic Arun Datta, 2013-09-20 Software tools are a great aid to process engineers but too much dependence on such tools can often lead to inappropriate and suboptimal designs Reliance on software is also a hindrance without a firm understanding of the principles underlying its operation since users are still responsible for devising the design In Process Engineering and Design

PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES DUTTA, BINAY K., 2007-01-21 This textbook is targetted to undergraduate students in chemical engineering chemical technology and biochemical engineering for courses in mass transfer separation processes transport processes and unit operations The principles of mass transfer both diffusional and convective have been comprehensively discussed The application of these principles to separation processes is explained The more common separation processes used in the chemical industries are individually described in separate chapters The book also provides a good understanding of the construction the operating principles and the selection criteria of separation equipment Recent developments in

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practices and pilot plant design and scale up criteria

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