



# Distillation Tray Design Manual

**R Pring**



## **Distillation Tray Design Manual:**

*Bubble-tray Design Manual* American Institute of Chemical Engineers. Research Committee, 1958 **Chemical Engineering Design** Ray Sinnott, 2005-07-01 Chemical Engineering Design is one of the best known and widely adopted texts available for students of chemical engineering It deals with the application of chemical engineering principles to the design of chemical processes and equipment Revised throughout the fourth edition covers the latest aspects of process design operations safety loss prevention and equipment selection among others Comprehensive and detailed the book is supported by problems and selected solutions In addition the book is widely used by professionals as a day to day reference Best selling chemical engineering text Revised to keep pace with the latest chemical industry changes designed to see students through from undergraduate study to professional practice End of chapter exercises and solutions **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 *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

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