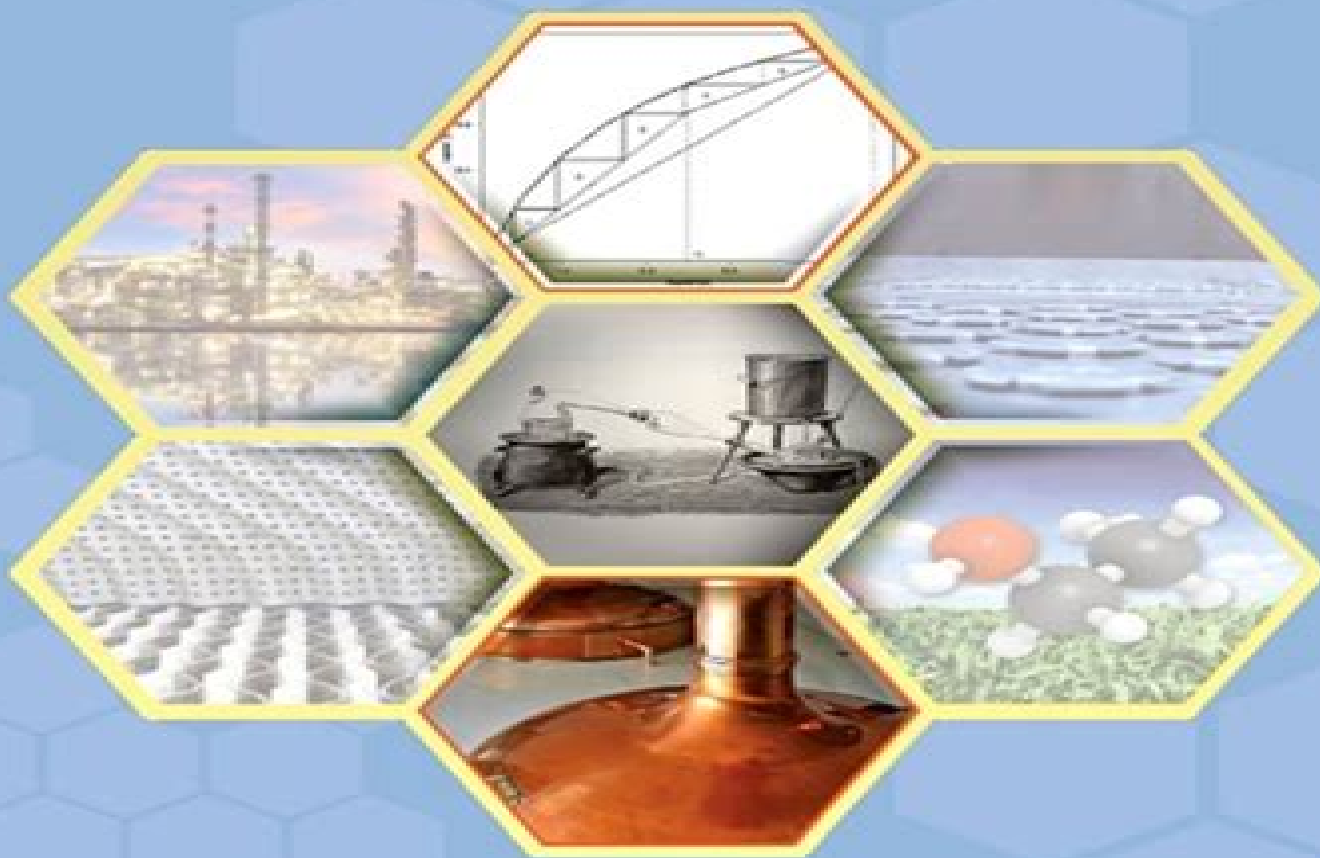


DISTILLATION

FUNDAMENTALS AND PRINCIPLES



Edited by
Andrzej Górak and Eva Sorensen



Distillation Fundamentals And Principles August 8 2014

Hardcover

**Johann G. Stichlmair, Harald
Klein, Sebastian Rehfeldt**



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Distillation Andrzej Gorak, Eva Sorensen, 2014-07-22 *Distillation Fundamentals and Principles* winner of the 2015 PROSE Award in Chemistry Physics is a single source of authoritative information on all aspects of the theory and practice of modern distillation suitable for advanced students and professionals working in a laboratory industrial plants or a managerial capacity It addresses the most important and current research on industrial distillation including all steps in process design feasibility study modeling and experimental validation together with operation and control aspects This volume features an extra focus on the conceptual design of distillation Winner of the 2015 PROSE Award in Chemistry Physics from the Association of American Publishers Practical information on the newest development written by recognized experts Coverage of a huge range of laboratory and industrial distillation approaches Extensive references for each chapter facilitates further study *Distillation Principles and Processes* Young Sydney, 1901 *Distillation Principles and Processes* Sydney

Young, 1922 ***Distillation*** R. J. Hengstebeck, 1964 *Distillation* Robert J. Hengstebeck, 1968 *Distillation. Principles and Design Procedures* Robert Joseph Hengstebeck, 1961 *Distillation* Johann G. Stichlmair, Harald Klein, Sebastian Rehfeldt, 2021-05-18 *Distillation Principles and Practice* Second Edition covers all the main aspects of distillation including the thermodynamics of vapor liquid equilibrium the principles of distillation the synthesis of distillation processes the design of the equipment and the control of process operation Most textbooks deal in detail with the principles and laws of distilling binary mixtures When it comes to multi component mixtures they refer to computer software nowadays available One of the special features of the second edition is a clear and easy understandable presentation of the principles and laws of ternary distillation The right understanding of ternary distillation is the link to a better understanding of multi component distillation Ternary distillation is the basis for a conceptual process design for separating azeotropic mixtures by using an entrainer and for reactive distillation which is a rapidly developing field of distillation Another special feature of the book is the design of distillation equipment i.e. tray columns and packed columns In practice empirical know how is preferably used in many companies often in form of empirical equations which are not even dimensionally correct The objective of the proposed book is the derivation of the relevant equations for column design based on first principles The field of column design is permanently developing with respect to the type of equipment used and the know how of two phase flow and interfacial mass transfer *Principles of Distillation* Pandharipande S., Contents 1 Introduction 2 Vapour Liquid Equilibria 3 Methods of Distillation 4 Steam and Batch Distillation 5 Multicomponent Distillation 6 Methods of Separation of Azeotrope 7 Design of Distillation Column 8 Reactive Distillation 9 Thermal Coupled and Partitioned Distillation 10 Modeling of Distillation Operations Using Artificial Neural Networks Appendix References ***Distillation*** Johann G. Stichlmair, James R. Fair, 1998-09-14 A completely thorough and up to date guide to modern distillation methods and their applications *Distillation* has been used for separating liquid mixtures for more than two thousand years and it continues to be the most widely used

separation technique in key industries throughout the industrialized world Although the basic principles have remained the same since the days of the ancient Egyptians new distillation and distillation control methods continue to be developed to satisfy a variety of highly specialized requirements Encyclopedic in scope this book provides distillation technicians with a uniquely comprehensive up to date account of distillation methods currently employed in the oil petrochemical chemical and pharmaceutical industries The authors begin by acquainting readers with the principles of vapor liquid equilibrium and the essential calculations for determining phase equilibria and equilibrium curves Subsequent chapters are devoted to practical discussions of virtually all modern distillation methods including batch single stage multistage continuous multistage batch and others A wide array of industrial applications are described including everything from crude oil distillation and argon recovery from air to water purification and ammonia recovery from wastewater Special sections deal with the separation of azeotropic mixtures and the energy demand of distillation processes Concluding chapters are devoted to detailed extremely well illustrated descriptions of practical equipment design and modern distillation control methods Distillation Principles and Practice is an indispensable working resource for distillation technicians working in the oil petrochemical chemical and pharmaceutical industries

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