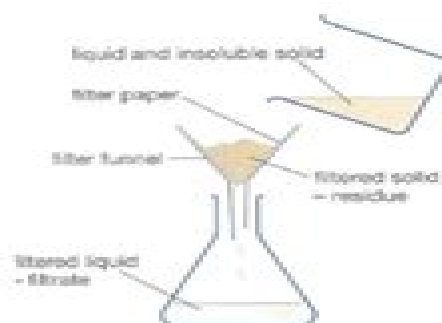


# Separation techniques study guide

## 1. Filtration- (used to separate a solid in liquid mixture where the solid does not dissolve in the solvent and forms a heterogeneous solution. Example: a mixture of sand and water or soil and water)



The part of the mixture that stays behind in the filter paper is called the residue.

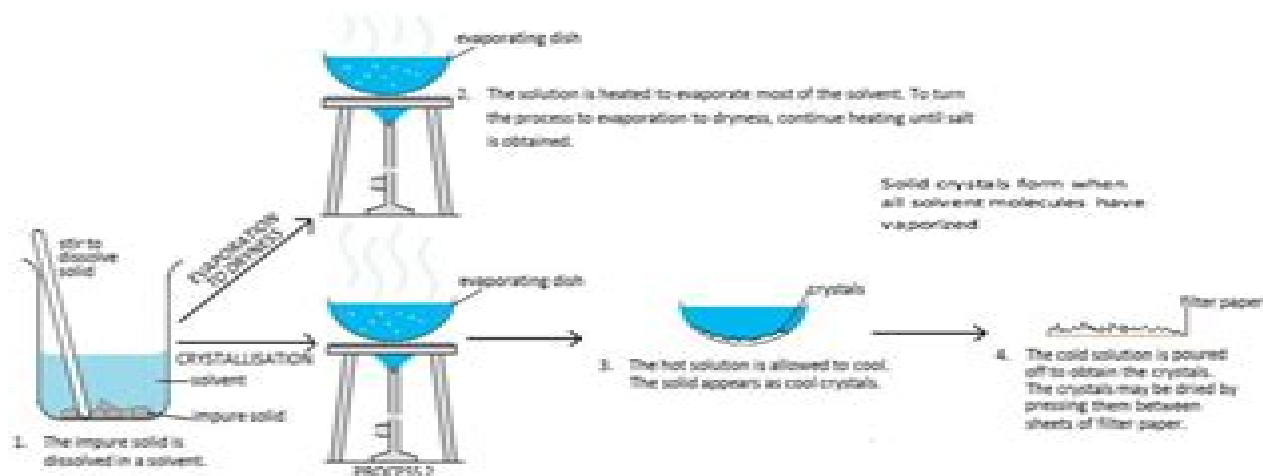
The part of the mixture that passes through the filter paper is called the filtrate.



Filtration: An undissolved/insoluble solid can be separated from a solution by passing it through a piece of filter paper in a filter funnel. The solution which passes through the filter paper is called the filtrate. The solid that stays on the filter paper is called the residue. This residue should then be washed with distilled water to remove any solution between it's solid particles.

It operates on the principle of exploiting **particle size differences**. The filter paper acts as a **selectively permeable membrane** as it allows smaller sized substances to pass through while not allowing larger sized particles to do so.  
Example: mixture of sand and water or soil and water

## 2. Crystallization



Crystallization is a process used to separate a solid in liquid mixture where the solid is soluble in the solvent and dissolves in it and forms a homogeneous solution. Example: A mixture of NaCl and water.

It exploits the principle of boiling point differences.

A crystalline solid can be extracted from a solution by heating the solution. The solvent is evaporated until the crystallization point of the solid is reached. You can know if the crystallization point is reached by placing a drop of the solution on a cold surface from time to time to see if crystals form. When it does leave the solution to cool on a cold surface until crystals form fully as we did in the lab.

# Separation Techniques 2 Gas Liquid Solid Systems

**R. P. Chhabra, Basavaraj Gurappa**



## **Separation Techniques 2 Gas Liquid Solid Systems:**

**Separation Techniques** Larry Ricci, 1980      **Chemical Engineering Volume 2** J H Harker, J R Backhurst, J.F. Richardson, 2013-10-22 Chemical Engineering Volume 2 covers the properties of particulate systems including the character of individual particles and their behaviour in fluids Sedimentation of particles both singly and at high concentrations flow in packed and fluidised beds and filtration are then examined The latter part of the book deals with separation processes such as distillation and gas absorption which illustrate applications of the fundamental principles of mass transfer introduced in Chemical Engineering Volume 1 In conclusion several techniques of growing importance adsorption ion exchange chromatographic and membrane separations and process intensification are described A logical progression of chemical engineering concepts volume 2 builds on fundamental principles contained in Chemical Engineering volume 1 and these volumes are fully cross referenced Reflects the growth in complexity and stature of chemical engineering over the last few years Supported with further reading at the end of each chapter and graded problems at the end of the book

*Gas-liquid-solid Systems* Larry Ricci, Chemical Engineering, 1980      **Handbook of Separation Process Technology** Ronald W. Rousseau, 1987-05-13 Surveys the selection design and operation of most of the industrially important separation processes Discusses the underlying principles on which the processes are based and provides illustrative examples of the use of the processes in a modern context Features thorough treatment of newer separation processes based on membranes adsorption chromatography ion exchange and chemical complexation Includes a review of historically important separation processes such as distillation absorption extraction leaching and crystallization and considers these techniques in light of recent developments affecting them      *Integrated Design and Simulation of Chemical Processes* Alexandre C.

Dimian, 2003-05-13 This title aims to teach how to invent optimal and sustainable chemical processes by making use of systematic conceptual methods and computer simulation techniques The material covers five sections process simulation thermodynamic methods process synthesis process integration and design project including case studies It is primarily intended as a teaching support for undergraduate and postgraduate students following various process design courses and projects but will also be of great value to professional engineers interested in the newest design methods Provides an introduction to the newest design methods Of great value to undergraduate and postgraduate students as well as professional engineers Numerous examples illustrate theoretical principles and design issues      **Chemical Engineering**, 1984      **Coulson and Richardson's Chemical Engineering** R. P. Chhabra, Basavaraj Gurappa, 2019-04-12 Coulson and Richardson's Chemical Engineering Volume 2A Particulate Systems and Particle Technology Sixth Edition has been fully revised and updated to provide practitioners with an overview of chemical engineering including clear explanations of theory and thorough coverage of practical applications all supported by case studies A worldwide team of contributors has pooled their experience to revise old content and add new content The content has been updated to be more useful to practicing

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*Separations Chemistry* Fedor Macáček, James D. Navratil, 2016-06-06 Separation of chemical species is a gate to final success of synthesis and preparation of compounds in pure and defined state Variability of natural and artificial mixtures to be treated is enormous Task of chemistry is to separate components of homogeneous mixtures the gaseous and liquid solutions The book concentrates on understanding the basic philosophies of both equilibrium and nonequilibrium chemical thermodynamics and engineering performance that lay in principle of separation technique such as distillation crystallization centrifugation sorption membrane separations chromatography and liquid liquid extraction Specific phenomena connected with photochemical separation isotope composition and radioactivity are discussed as well The book is written for advanced students of chemistry having the knowledge of physical chemistry Calculation examples are based on the international system of units Unique list of over 1 300 full references covers scientific literature of the eighteenth to the twenty first centuries

**Chemical Process Design** Alexandre C. Dimian, Costin Sorin Bildea, 2008-04-09 This practical how to do book deals with the design of sustainable chemical processes by means of systematic methods aided by computer simulation Ample case studies illustrate generic creative issues as well as the efficient use of simulation techniques with each one standing for an important issue taken from practice The didactic approach guides readers from basic knowledge to mastering complex flow sheets starting with chemistry and thermodynamics via process synthesis efficient use of energy and waste minimization right up to plant wide control and process dynamics The simulation results are compared with flow sheets and performance indices of actual industrial licensed processes while the complete input data for all the case studies is also provided allowing readers to reproduce the results with their own simulators For everyone interested in the design of innovative chemical processes

Separation Process Principles J. D. Seader, Ernest J. Henley, D. Keith Roper, 2016-01-20 Separation Process Principles with Applications Using Process Simulator 4th Edition is the most comprehensive and up to date treatment of the major separation operations in the chemical industry The 4th edition focuses

on using process simulators to design separation processes and prepares readers for professional practice Completely rewritten to enhance clarity this fourth edition provides engineers with a strong understanding of the field With the help of an additional co author the text presents new information on bioseparations throughout the chapters A new chapter on mechanical separations covers settling filtration and centrifugation including mechanical separations in biotechnology and cell lysis Boxes help highlight fundamental equations Numerous new examples and exercises are integrated throughout as well

Unit Operations of Particulate Solids Enrique Ortega-Rivas, 2016-04-19 Suitable for practicing engineers and engineers in training this book covers the most important operations involving particulate solids Through clear explanations of theoretical principles and practical laboratory exercises the text provides an understanding of the behavior of powders and pulverized systems It also helps readers develop skills for operating optimizing and innovating particle processing technologies and machinery in order to carry out industrial operations The author explores common bulk solids processing operations including milling agglomeration fluidization mixing and solid fluid separation

Applications in Design and Simulation of Sustainable Chemical Processes Alexandre C. Dimian, Costin Sorin Bildea, Anton A. Kiss, 2019-08-08 Applications in Design and Simulation of Sustainable Chemical Processes addresses the challenging applications in designing eco friendly but efficient chemical processes including recent advances in chemistry and catalysis that rely on renewable raw materials Grounded in the fundamental knowledge of chemistry thermodynamics chemical reaction engineering and unit operations this book is an indispensable resource for developing and designing innovating chemical processes by employing computer simulations as an efficient conceptual tool Targeted to graduate and post graduate students in chemical engineering as well as to professionals the book aims to advance their skills in process innovation and conceptual design The work completes the book Integrated Design and Simulation of Chemical Processes by Elsevier 2014 authored by the same team Includes comprehensive case studies of innovative processes based on renewable raw materials Outlines Process Systems Engineering approach with emphasis on systematic design methods Employs steady state and dynamic process simulation as problem analysis and flowsheet creation tool Applies modern concepts as process integration and intensification for enhancing the sustainability

*Chemical Exchange as a Versatile Isotope Separation Process* G. H. Clewett, 1950

**Advances in Separation Sciences** Pravin G Ingole, Chaudhery Mustansar Hussain, 2024-11-30 Advances in Separation Sciences Sustainable Processes and Technologies discusses the different separation technologies and their applications in a variety of industrial processes The book lists the pros and cons of the various processes for specialized application and outlines selection criteria to provide readers with the knowledge they need to develop processes and technologies themselves Divided into eight parts chapters cover sustainable perspectives and developments theory and mechanisms of various separation processes advances in sample preparation techniques advances in chromatography advances in membrane technology advances in microfluidics green and sustainable separation sciences and challenges and

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**Encyclopedia of Surface and Colloid Science** P. Somasundaran,2006      **26th European Symposium on Computer Aided Process Engineering**

,2016-06-17 26th European Symposium on Computer Aided Process Engineering contains the papers presented at the 26th European Society of Computer Aided Process Engineering ESCAPE Event held at Portoro Slovenia from June 12th to June 15th 2016 Themes discussed at the conference include Process product Synthesis Design and Integration Modelling Numerical analysis Simulation and Optimization Process Operations and Control and Education in CAPE PSE Presents findings and discussions from the 26th European Society of Computer Aided Process Engineering ESCAPE Event

**Comprehensive Membrane Science and Engineering** Enrico Drioli,Lidietta Giorno,Enrica Fontananova,2017-07-20 Comprehensive Membrane Science and Engineering Second Edition Four Volume Set is an interdisciplinary and innovative reference work on membrane science and technology Written by leading researchers and industry professionals from a range of backgrounds chapters elaborate on recent and future developments in the field of membrane science and explore how the field has advanced since the previous edition published in 2010 Chapters are written by academics and practitioners across a variety of fields including chemistry chemical engineering material science physics biology and food science Each volume covers a wide spectrum of applications and advanced technologies such as new membrane materials e g thermally rearranged polymers polymers of intrinsic microporosity and new hydrophobic fluoropolymer and processes e g reverse electrodialysis membrane contractors membrane crystallization membrane condenser membrane dryers and membrane emulsifiers that have only recently proved their full potential for industrial application This work covers the latest advances in membrane science linking fundamental research with real life practical applications using specially selected case studies of medium and large scale membrane operations to demonstrate successes and failures with a look to future developments in the field Contains comprehensive cutting edge coverage helping readers understand the latest theory Offers readers a variety of perspectives on how membrane science and engineering research can be best applied in practice across a range of industries Provides the theory behind the limits advantages future developments and failure expectations of local membrane operations in emerging countries

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