

# solution manual

## TRANSPORT PROCESSES AND SEPARATION PROCESS PRINCIPLES

FIFTH EDITION

CHRISTIE JOHN GEANKOPLOS • A. ALLEN HERSEL  
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# Geankoplis Separation Process Principles Solution Manual

**Nayef Ghasem**



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transfer and mass transfer Part 2 focuses on key separation processes including absorption stripping humidification filtration membrane separation gaseous membranes distillation liquid liquid extraction adsorption ion exchange crystallization and particle size reduction settling sedimentation centrifugation leaching evaporation and drying The authors conclude with convenient appendices on the properties of water compounds foods biological materials pipes tubes and screens The companion website [trine.edu/transport5ed](http://trine.edu/transport5ed) contains additional homework problems that incorporate today's leading software including Aspen CHEMCAD MATLAB COMSOL and Microsoft Excel

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**SEPARATION PROCESS PRINCIPLES, 2ND ED** Seader, 2006-08 Market\_Desc Chemical Engineers Students of Engineering Special Features A new section on Dimensions and Units to facilitate the use of the SI AE and CGS systems which permeate applications to separation processes Increased emphasis on the many ways used to express the composition of chemical mixtures New material on the thermodynamics of difficult mixtures including electrolytes polymer solutions and mixtures of light gases and polar organic compounds New sections on the hybrid systems and membrane cascades New section on optimal control as a third mode of operation for batch distillation New discussion on concentration polarization and fouling About The Book Updated to reflect advances in the field the second edition of this highly respected text examines rate based and equilibrium based approaches to separation operations It describes the fundamentals of all separation operations of commercial interest and includes theory and application examples in each chapter as well as over 600 exercises

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