

Design Of Equilibrium Stage Processes

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uses a large number of industrially significant problems to convey an in depth understanding of modern calculation procedures includes numerous topical examples and problems and both conventional and si units

addresses the use of rigorous multicomponent mass transfer models for the simulation and design of process equipment deals with the basic equations of diffusion in multicomponent systems describes various models and estimations of rates of mass and energy transfer covers applications of multicomponent mass transfer models to process design includes appendices providing necessary mathematical background contains a large number of numerical examples worked out in detail

covers the key topics in computer organization and embedded systems this title presents hardware design principles and shows how hardware design is influenced by the requirements of software it explains the main principles supported by examples drawn from commercially available processors

this book 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

phase equilibria in chemical engineering is devoted to the thermodynamic basis and practical aspects of the calculation of equilibrium conditions of multiple phases that are pertinent to chemical engineering processes efforts have been made throughout the book to provide guidance to adequate theory and practice the book begins with a long chapter on equations of state since it is intimately bound up with the development of thermodynamics following material on basic thermodynamics and nonidealities in terms of fugacities and activities individual chapters are devoted to equilibria primarily between pairs of phases a few topics that do not fit into these categories and for which the state of the art is not yet developed quantitatively have been relegated to a separate chapter the chapter on chemical equilibria is pertinent since many processes involve simultaneous chemical and phase equilibria also included are chapters on the evaluation of enthalpy and entropy changes of nonideal substances and mixtures and on experimental methods this book is intended as a reference and self study as well as a textbook either for full courses in phase equilibria or as a supplement to related courses in the chemical engineering curriculum practicing engineers concerned with separation technology and process design also may find the book useful

vols 29 30 contain papers of the international engineering congress chicago 1893 v 54 pts a f papers of the international engineering congress st louis 1904

the definitive up to date student friendly guide to separation process engineering with more mass transfer coverage and a new chapter on crystallization separation process engineering fourth edition is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer in this completely updated edition phillip c wankat teaches each key concept through detailed realistic examples using real data including up to date simulation practice and spreadsheet based exercises wankat thoroughly covers each separation process including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more this edition provides expanded coverage of mass transfer and diffusion so faculty can cover separations and mass transfer in one course detailed discussions of liquid liquid extraction adsorption chromatography and ion exchange prepare students for advanced work wankat presents coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and applications an updated chapter on economics and energy conservation in distillation adds coverage of equipment costs this edition contains more than 300 new up to date homework problems extensively tested in undergraduate courses at purdue university and the university of canterbury new zealand coverage includes new chapter on crystallization from solution including equilibrium chemical purity crystal size distribution and pharmaceutical applications thirteen up to date aspen plus process simulation labs adaptable to any simulator eight detailed aspen chromatography labs extensive new coverage of ternary stage by stage distillation calculations fraction collection and multicomponent calculations for simple batch distillation new mass transfer analysis sections on numerical solution for variable diffusivity mass transfer to expanding or contracting objects including ternary mass transfer expanded coverage of pervaporation updated excel spreadsheets offering more practice with distillation diffusion mass transfer and membrane separation problems

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