



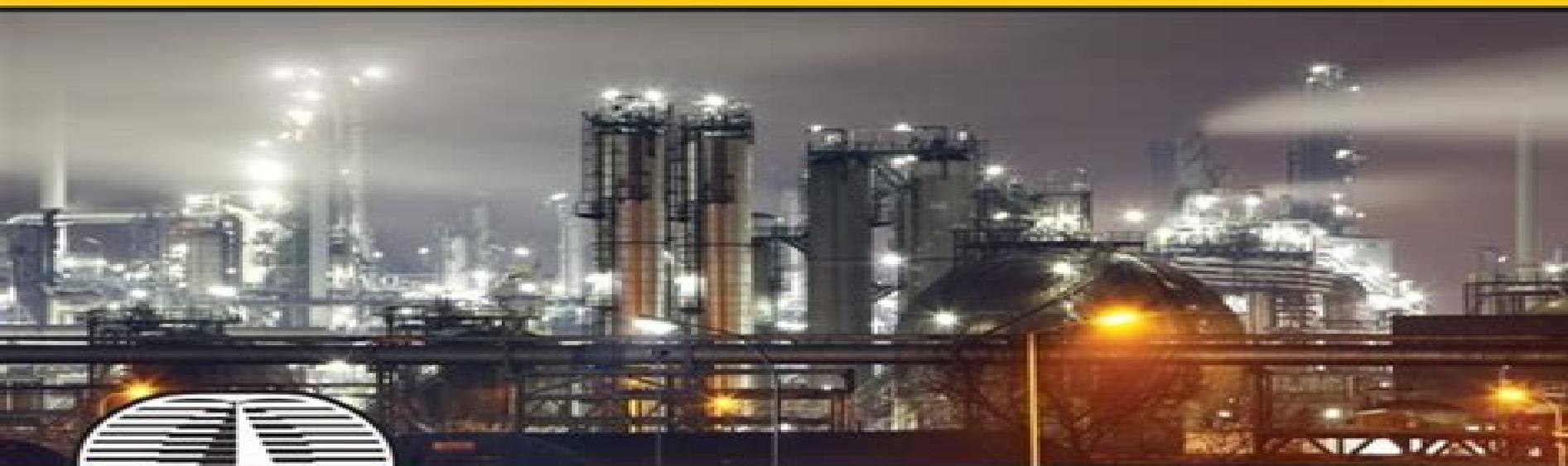
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Mass Balances for Chemical Engineers Gumersindo Feijoo, Juan Manuel Lema, Maria Teresa Moreira, 2026-02-02 The fundamentals of mass balances relevant for chemical engineers summarized in an easy comprehensible manner Plenty of example calculations schemes and flow diagrams facilitate the understanding Case studies from relevant topics such as sustainable chemistry illustrate the theory behind current applications Mass balance fundamentals in systems with and without chemical reactions Easy to understand with plenty of example calculations schemes and flow diagrams Current practice examples from the field of sustainable chemistry New in the Second Edition 1 Extending the application of mass balances to the circular economy In section 4.4 a new topic would be introduced with the calculation of the Material Circularity Indicator MCI one of the most widespread in industry which is also included in the standard ISO 59020 published in 2024 Circular economy Measuring and assessing circularity performance <https://www.ellenmacarthurfoundation.org/material-circularity-indicator> 2 Introducing the concept of dimensional analysis A new chapter dedicated to dimensional analysis where the concept of equilibrium is applied with the dimensions that allows the phenomenological definition of processes and the scale up of systems based on the theory of similarity 3 Addressing the application of Artificial Intelligence A new appendix E would be introduced describing AI applications in Excel for the definition of functions and macros 4 Increasing the number of examples case studies and problems to solve by 20%

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Fundamentals and Applications of Chemical Engineering Dr. Kirubanandan Shanmugam, 2025-09-25. It is with great happiness that I would like to acknowledge a great deal of people that got helped me extremely through the entire difficult, challenging but a rewarding and interesting path towards some sort of Edited Book without having their help and support, none of this work could have been possible.

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accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date simulation practice and new spreadsheet based exercises Wankat thoroughly covers each of today s leading approaches including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more In this edition he also presents the latest design methods for liquid liquid extraction This edition contains the most detailed coverage available of membrane separations and of sorption separations adsorption chromatography and ion exchange Updated with new techniques and references throughout Separation Process Engineering Third Edition also contains more than 300 new homework problems each tested in the author s Purdue University classes Coverage includes Modular up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell Stefan approaches Detailed discussions of liquid liquid extraction including McCabe Thiele triangle and computer simulation analyses mixer settler design Karr columns and related mass transfer analyses Thorough introductions to adsorption chromatography and ion exchange designed to prepare students for advanced work in these areas Complete coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation diffusion mass transfer and membrane separation

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