



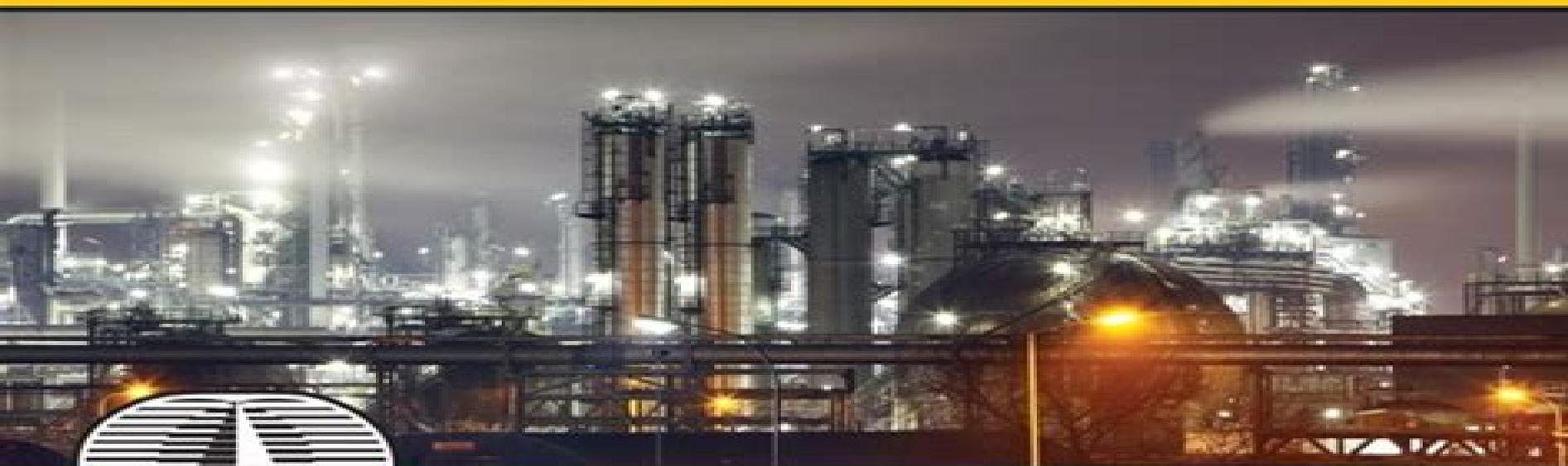
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**Mass Balances for Chemical Engineers** Gumersindo Feijoo, Juan Manuel Lema, Maria Teresa Moreira, 2026-02-02 The fundamentals of mass balances relevant for chemical engineers summarized in an easy comprehensible manner Plenty of example calculations 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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