

Problems on Material and Energy Balance Calculation

By K. Balu, N. Satyamurthi, S. Ramalingam, B. Deebika

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Mass and Energy Balance Calculations are the fundamental components in the Design and Development of Chemical Process Industries. Mass Balance Calculations are performed to determine the yields of main products, byproducts, consumption of raw material and production losses. Only when the Mass Balance is performed, the Process Engineer can make calculations required for design of production equipment in the process. Energy balance involves the computation of input and outputs of energy in equipments. Energy Balance is performed from Material Balance taking into account the thermal effects (Exothermic or Endothermic) of reactions and the physical transformations (Evaporation, Crystallization) occurring in the Process Equipment. The present book has problems and solutions in Material and Energy Balance in Process Equipment. This is followed by Energy Balance problems. All problems assume Steady State system. The text covers the syllabus of all Chemical Engineering Schools offering this course. The number and variety of problems proposed in this book are extensive. The problems are organized in each chapter according to subject matter. It is possible for answers to differ slightly due to different sources of data. The teaching experience of authors convinces that one of the glaring weakness of the students in Chemical and Petroleum Engineering is their inability to think clearly and accurately in terms of arithmetic. It is hoped this book will prove of real value in Process Calculations Instructions in classroom. This can also serve as a refresher book for practising engineers.

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