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crc press is pleased to introduce the new edition of commonly asked questions in thermodynamics an indispensable resource for those in modern science and engineering disciplines from molecular science engineering and biotechnology to astrophysics fully updated throughout this edition features two new chapters focused on energy utilization and biological systems this edition begins by setting out the fundamentals of thermodynamics including its basic laws and overarching principles it provides explanations of those principles in an organized manner using questions that arise frequently from undergraduates in the classroom as the stimulus these early chapters explore the language of thermodynamics the first and second laws statistical mechanical theory measurement of thermodynamic quantities and their relationships phase behavior in single and multicomponent systems electrochemistry and chemical and biochemical reaction equilibria the later chapters explore applications of these fundamentals to a diverse set of subjects including power generation with and without fossil fuels for transport industrial and domestic use heating decarbonization technologies energy storage refrigeration environmental pollution and biotechnology data sources for the properties needed to complete thermodynamic evaluations of many processes are included the text is designed for readers to dip into to find an answer to a specific question where thermodynamics can provide some if not all of the answers whether in the context of an undergraduate course or not thus its readership extends beyond conventional technical undergraduates to practicing engineers and also to the interested lay person who seeks to understand the discourse that surrounds the choice of particular technological solutions to current and future energy and material production problems

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 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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