

Fundamentals Of Momentum Heat Mass Transfer 6th Edition

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this title provides a complete introduction to the physical origins of heat and mass transfer while using problem solving methodology the systematic approach aims to develop readers confidence in using this tool for thermal analysis

fundamentals of momentum heat and mass transfer now in its sixth edition continues to provide a unified treatment of momentum transfer fluid mechanics heat transfer and mass transfer this new edition has been updated to include more coverage of modern topics and new applications such as macro and micro scale chemical reactors additionally the sixth edition focuses on an explicit problem solving methodology that is thoroughly and consistently implemented throughout the text it is designed for undergraduates taking transport phenomena or transfer and rate process courses

fundamentals of momentum heat and mass transfer revised 6th edition provides a unified treatment of momentum transfer fluid mechanics heat transfer and mass transfer the new edition has been updated to include more modern examples problems and illustrations with real world applications the treatment of the three areas of transport phenomena is done sequentially the subjects of momentum heat and mass transfer are introduced in that order and appropriate analysis tools are developed

dramatically restructured more than double in size the second edition of the food properties handbook has been expanded from seven to 24 chapters in the more than ten years since the publication of the internationally acclaimed and bestselling first edition many changes have taken place in the approaches used to solve problems in food preservat

gives a foundation to the four principle facets of thermal design heat transfer analysis materials performance heating and cooling technology and instrumentation and control the focus is on providing practical thermal design and development guidance across the spectrum of problem analysis material applications equipment specification and sensor and control selection

physical principles of chemical engineering covers the significant advancements in the understanding of the physical principles of chemical engineering this book is composed of 12 chapters that describe chemical unit processes through analogy with the unit of operations of chemical engineering the

introductory chapters survey the concept and principles of mass and energy balances as well as the application of entropy the next chapters deal with the probability and kinetic theories of gases the physical aspects of solids the different dispersed systems and the principles and application of fluid dynamics other chapters discuss the property dimension and model theory heat mass and momentum transfer and the characteristics of multiphase flow processes the final chapters review the model of rheological bodies the molecular kinetic interpretations of rheological behavior and the principles of reaction kinetics this book will prove useful to chemical engineers

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