

Seventh Edition

Principles of HEAT AND MASS TRANSFER

International Student Version

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Summary Heat and Mass Transfer Hans Dieter Baehr, Karl Stephan, 2013-04-17 This book is the English translation of our German publication which appeared in 1994 with the title Wärme und Stoffübertragung 2nd edition Berlin Springer Verlag 1996 The German version originated from lecture courses in heat and mass transfer which we have held for many years at the Universities of Hannover and Stuttgart respectively Our book is intended for students of mechanical and chemical engineering at universities and engineering schools but will also be of use to students of other subjects such as electrical engineering physics and chemistry Firstly our book should be used as a textbook alongside the lecture course Its intention is to make the student familiar with the fundamentals of heat and mass transfer and enable him to solve practical problems On the other hand we placed special emphasis on a systematic development of the theory of heat and mass transfer and gave extensive discussions of the essential solution methods for heat and mass transfer problems Therefore the book will also serve in the advanced training of practising engineers and scientists and as a reference work for the solution of their tasks The material is explained with the assistance of a large number of calculated examples and at the end of each chapter a series of exercises is given This should also make self study easier **Fundamentals of Heat and Mass Transfer** Sarit K. Das, 2010 Fundamentals of Heat and Mass Transfer is an introductory text elaborating the interface between heat transfer and subjects like thermodynamics or fluid mechanics presenting the scientific basis of the equations and their physical explanations in a lucid way The basic theories such as the Boundary Layer Theory and theories related to bubble growth during phase change have been explained in detail In two phase heat transfer the deviations from standard theories such as the Nusselt's theory of condensation have been discussed In the chapter on heat exchangers detailed classification selection analysis and design procedures have been enumerated while two chapters on numerical simulation have also been included

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