



Convective Heat and Mass Transfer (Asia Higher Education Engineering/Computer Science Mechanical Engineering)

By W. M. Kays



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The 4th edition of "CHMT" continues the trend, initiated with the 3rd edition, of encouraging the use of a numerically based, computational approach to solving convective heat and mass transfer problems. The book also continues its tradition of also providing classic problem solving approaches to this subject. This textbook presents a strong theoretical basis for convective heat and mass transfer by focusing on boundary layer theory. This new edition provides optional coverage of the software teaching tool TEXSTAN. This boundary layer computer program can be used to enhance the understanding of the relationship between the surface friction, heat, and mass transfer and their respective flow fields. TEXSTAN contains the data structure needed to describe and solve most convective problems encountered by senior and graduate level students. Other significant changes include: expanded chapter on convective heat transfer with body forces; reduced focus on heat exchanger theory; and completely rewritten chapters on mass transfer to include more engineering examples for both low and high transfer rates, to provide the student with more insight to a seemingly difficult subject.



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