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Heat Transfer at Low Temperatures

By Walter Frost

Springer-Verlag New York Inc., United States, 2013. Paperback. Book Condition: New. 235 x 155 mm. Language: English . Brand New Book. The purposes of this book are to provide insight and to draw attention to problems peculiar to heat transfer at low temperatures. This does not imply that the theories of classical heat transfer fail at low temperatures, but rather that many of the approximations employed in standard solutions techniques are not valid in this regime. Physical properties, for example, have more pronounced variations at low temperatures and cannot, as is conventionally done, be held constant. Fluids readily become mixtures of two or more phases and their analysis is different from that for a single-phase fluid. These and other problems which occur more frequently at low temperatures than at standard conditions are discussed in this book. Although the title specifies heat transfer, the book also contains a very comprehensive chapter on two-phase fluid flow and a partial chapter on the flow of fluids in the thermodynamically critical state. Emphasis is placed on those flow phenomena that occur at low temperatures. Flow analyses are, of course, a prerequisite to forced-convection heat transfer analyses, and thus these chapters add continuity to the...



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