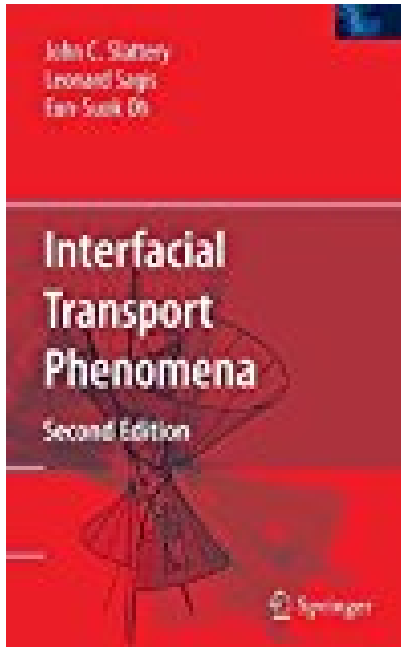


Interfacial Transport Phenomena



BOOK DETAILS

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BOOK SYNOPSIS

Transport phenomena is used here to describe momentum, energy, mass, and entropy transfer (Bird et al. 1960, 1980). It includes thermodynamics, a special case of which is thermostatics. Interfacial transport phenomena refers to momentum, energy, mass, and entropy transfer within the immediate neighborhood of a phase interface, including the thermodynamics of the interface. In terms of qualitative physical observations, this is a very old field. Pliny the Elder (Gaius Plinius Secundus, 23-79 A.D.; Pliny 1938) described divers who released small quantities of oil from their mouths, in order to damp capillary ripples on the ocean surface and in this way provide more uniform lighting for their work. Similar stories were retold by Benjamin Franklin, who conducted experiments of his own in England (Van Doren 1938). In terms of analysis, this is a generally young field. Surface thermostatics developed relatively early, starting with Gibbs (1948) and continuing with important contributions by many others (see Chapter 5).

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