



# Liquid Vapor Phase Change Phenomena: An Introduction to the Thermophysics of Vaporization and Condensation Processes in Heat Transfer Equipment, Second Edition

By Van P. Carey

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**Liquid-Vapor Phase-Change Phenomena** presents the basic thermophysics and transport principles that underlie the mechanisms of condensation and vaporization processes. The text has been thoroughly updated to reflect recent innovations in research and to strengthen the fundamental focus of the first edition. Starting with an integrated presentation of the nonequilibrium thermodynamics and interfacial phenomena associated with vaporization and condensation, coverage follows of the heat transfer and fluid flow mechanisms in such processes. The second edition includes significant new material on the nanoscale and microscale thermophysics of boiling and condensation phenomena and the use of advanced computational tools to create new models of phase-change events. The importance of basic phenomena to a wide variety of applications is emphasized and illustrated throughout using examples and problems. Suitable for senior undergraduate and first-year graduate students in mechanical or chemical engineering, the book can also be a helpful reference for practicing engineers or scientists studying the fundamental physics of nucleation, boiling and condensation.

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### **About the Author**

Van P. Carey has experience in both industry and education. Prior to his appointment at Berkeley, he was a senior Project Engineer at the Harrison division of General Motors. He began his career in education as an Assistant Professor in the Berkeley Mechanical Engineering department in 1982 before becoming Vice-Chair for instruction in 1992, which he served until 1995. In 1990, Carey received his appointment as full Professor. He has received numerous awards throughout his career and is a member of AAAS, AIAA, ASME (honored as a Fellow in 2000), APS, ASEE, American Society of Heating, Refrigerating, and Air-Conditioning Engineers, and SAE.

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