

Mostafa Ghiaasiaan



Mostafa Ghiaasiaan is a recognized expert and author on thermal-fluid and transport phenomena. He is a professor at the George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology. He received his MSc in nuclear science and engineering from Imperial College, University of London, in 1978; and his PhD in thermal science from UCLA in 1983. From 1983 until 1991 he was employed with the aerospace industry in Southern California. He joined the faculty of Georgia Tech in 1991, as an associate professor. He was promoted to full professor in 2001. His broad areas of research in the past have included transport phenomena in multi-phase flow, change-of-phase heat transfer, transport phenomena in microchannels, and cryogenics and cryocooler science and technology. He is a fellow of American Society of Mechanical Engineers (ASME), a member of American Nuclear Society (ANS), and a member of the American Cryogenics Society. He is a registered professional mechanical engineer in the State of California. Among his publications are more than 150 peer-reviewed articles, and the following two graduate-level text books:

Ghiaasiaan, S.M., *Two-Phase Flow, Boiling and Condensation in Conventional and Miniature Systems*, Cambridge University Press, 2008 (First Edition) and 2017 (Second Edition).

Ghiaasiaan, S.M., *Convective Heat and Mass Transfer*, Cambridge University Press, 2011 (First Printing), 2014 (Second Printing).

Cryogenics/cryocoolers, and cryogenic aspects of thermal control, have been Professor Ghiaasiaan's main topics of focus for the past several years. His research group has extensively investigated the flow and transport phenomena in the regenerators of Stirling and pulse tube cryocoolers, CFD simulations of cryocooler systems in their entirety, miniaturization of pulse tube cryocoolers, and more recently the transport and purification of liquefied natural gas. He served as the ICC-16 Conference Chair, hosted in May of 2010 in Atlanta, Georgia.

Since 2006 Mostafa has been the Executive Editor for Asia, Australasia, Middle East and Africa, of the peer-reviewed journal *Annals of Nuclear Energy* (Elsevier).