



Heat and Mass Transfer Data Book

By C.P. Kothandaraman, S. Subramanyan



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Compilation of data is intended as an adjunct to a standard text
Property values for materials arranged in alphabetical order at different temperature

Symbols, units explained alongside

Data presented only in SI units

Data presented through charts and tables

The book addresses to the students and the teachers of mechanical and chemical engineering as well as practising engineers Provides relevant property data in easily readable alphabetical form at different temperatures for:

Metals and alloys, liquids and gases of engineering interest

Building and insulating materials

Pure elements

Heat transfer correlations in easily readable form with notations side by side for:

Conduction both steady and unsteady state

Both forced and natural convection under various flow configurations

Boiling and condensation

Radiation for various geometrical configurations

Radiation for surfaces and solar radiation

Heat exchangers of various configurations including storage type and finned type

Mass transfer data for various combination of diffusing elements

Provision of charts when the equations involved are long and complex

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Editorial Review

About the Author

C P Kothandaraman, BE (Hons), ME, Ph D, FIE, MISTE, was professor in Mechanical Engineering at PSG College of Technology, Coimbatore, India. His subject areas are Heat Transfer, Thermal Science and Engineering, Fluid Mechanics, Refrigeration and Air-Conditioning, Solar Energy and Bio-gas Applications. He is now engaged in providing consultation in the design of heat exchangers, dryers, boilers and dust collection equipment.

S Subramanyan, former Principal, PSG College of Technology; former Registrar and former Vice Chancellor, Bharathiar University, Coimbatore had his education at PSG College of Technology, Coimbatore; Imperial College, London; and Manchester Institute of Science and Technology. He had been a post doctoral Fellow at the University of Kingston and University of Alberta in Canada. He has considerable experience in teaching subjects related to Thermal Engineering including Heat Transfer. At present he is Advisor for several leading engineering institutions.

Users Review

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Ross Adams:

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