

Heat Exchanger Design Handbook 2002 (HEDH 2002) Volume 4, Part 5. Physical Properties

By Geoffrey F. Hewitt



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VOLUME IV PART 5. PHYSICAL PROPERTIES The availability of physical property data on the materials of construction of heat exchangers and on the fluids passing through them has always been one of the most troublesome aspects of the equipment design process. This self-standing part of the HEAT EXCHANGER DESIGN HANDBOOK 2002 addresses this problem by providing information and, more importantly, wide-ranging tabular data on a great variety of substances and properties. Part 5 gives data on all relevant vapor and liquid properties along the saturation curve. Also, data for subcooled liquids and superheated gases are given in numerous tables. Data on density, specific heat capacity, thermal conductivity and dynamic viscosity have been greatly expanded to include latent heat of vaporization, saturated vapor pressure, Prandtl number, surface tension and thermal expansion coefficient. Also, new data on the physical properties of superheated gases at atmospheric pressure are tabulated including a myriad of physical and thermal properties. This volume is truly an indispensable tool for heat exchanger designers

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