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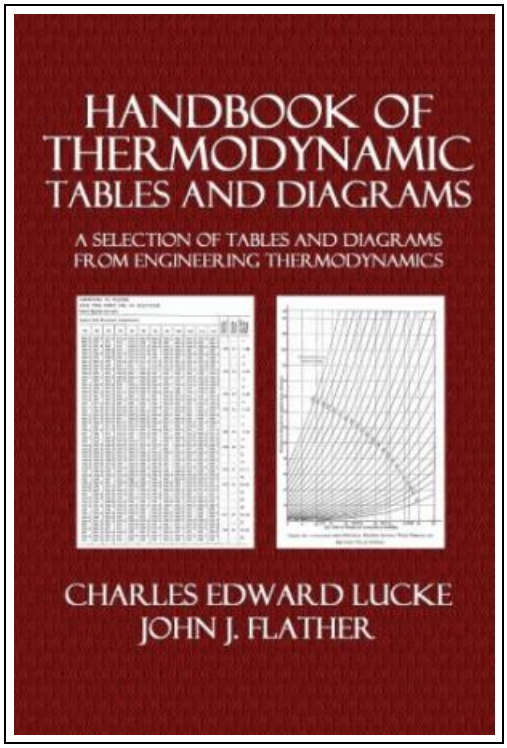

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Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.An excerpt from the beginning of PART I - INTRODUCTION: THE province of Engineering Thermodynamics is to guide numerical thermal computations dealing with actual substances and apparatus in accordance with the laws of thermodynamic philosophy. In order to do this, numerical values for heat effects must be available for the various substances and materials used in engineering under the varying conditions of practice, and in such units as may readily be applied; these include especially that class of units known as physical constants which embrace, for example, such quantities as the coefficients of expansion, the specific heats, latent heats of fusion and vaporization, the ratio of the pressure-volume product to absolute temperature, the exponent s in adiabatic expansion of gases and vapors, and various other quantities. In addition to the physical constants which are necessary in the work of thermodynamic computation, the solution of numerical problems is greatly facilitated by the use of other correlated tables and diagrams many of which are given in the present book of tables, but to correctly use such aids there should be no ambiguity in regard to the units employed. It should be noted that true pressures are always absolute, that is, measured above a perfect vacuum or counted from zero, while most pressure gages and other devices for measuring pressure, such as indicators, give results measured above or below atmospheric pressure. In all problems involving work of gases and vapors, the absolute values of the pressures must be used; hence, if a gage or indicator measurement is being considered, the pressure of the atmosphere found by means of the barometer must be added to the pressure above atmosphere in order to...

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