



Understanding Psychometrics, Third Edition

Donald P. Gatley

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Understanding Psychrometrics, Third Edition

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New in the Third Edition

Revised chapters for wet-bulb temperature and relative humidity and a revised Appendix V that includes a summary of ASHRAE Research Project RP-1485.

New constants for the universal gas constant based on CODATA and a revised molar mass of dry air to account for the increase of CO₂ in Earth's atmosphere.

New IAPWS models for the calculation of water properties above and below freezing.

New tables based on the ASHRAE RP-1485 real moist-air numerical model using the ASHRAE LibHuAirProp add-ins for Excel, MATLAB, Mathcad, and EES. Features: Includes Access to Bonus Materials and Sample Software: PDF files of 13 ultra-high-pressure and 12 existing ASHRAE psychrometric charts plus three new 0°C to 400°C charts. A limited demonstration version of the ASHRAE LibHuAirProp add-in that allows users to duplicate portions of the real moist-air psychrometric tables in the ASHRAE Handbook Fundamentals for both standard sea level atmospheric pressure and pressures from 5 to 10,000 kPa. The hw.exe program from the second edition, included to enable users to compare the 2009 ASHRAE numerical model real moist-air psychrometric properties with the 1983 ASHRAE-Hyland-Wexler properties. Benefit to the Customer: Multipurpose, go-to resource for students

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