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~~Joel was a NASA Faculty Fellow in 1999 and 2000 and a visiting professor of chemical engineering at Delft University of Technology in 2002. In 2003 Joel spent 6 months at Marshall Space Flight Center where he helped in the investigation of what caused the disintegration of the space shuttle, Challenger, and developed repair materials to help ...~~

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Intended as a textbook for "applied" or engineering thermodynamics, or as a reference for practicing engineers, the book uses extensive in-text, solved examples and computer simulations to cover the basic properties of thermodynamics. Pure substances, the first and second laws, gases, psychrometrics, the vapor, gas and refrigeration cycles, heat transfer, compressible flow, chemical reactions, fuels, and more are presented in detail and enhanced with practical applications. This version presents the material using SI Units and has ample material on SI conversion, steam tables, and a Mollier diagram. A CD-ROM, included with the print version of the text, includes a fully functional version of QuickField (widely used in industry), as well as numerous demonstrations and simulations with MATLAB, and other third party software.

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