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Dedicated to Professor Ion PĂVĂLOIU on his 60th anniversary

LIMITING CASES OF THERMODYNAMIC FUNCTIONS

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Abstract. Calculations necessary in thermodynamics and especially in phase equilibria require knowledge of the function P(V,T) (pressure-volume-temperature) for each fluid & fluid mixture. Another important function is $\gamma(T,x)$ of the activity coefficient in the liquid phase related to the temperature & composition. Limiting cases of these functions also considering their interrelationship provide important information for their range of application and validity which are difficult to be assessed otherwise.