1. Mathematical Transforms
   1. Total Derivative
   2. Inverse Relation Among Partial Derivatives
   3. Ratio Relation for Partials
   4. Relation for Partials with Three Variables
   5. Chain Rule
   6. Exact Equation Criteria
   7. Legendre Transformations
   8. Stirling’s Approximation
   9. Other Approximations
2. Relevant Examples