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Nota di contenuto	Biochemical Thermodynamics: Applications of Mathematica; Contents; Preface; Chapter 1 Thermodynamics of the Dissociation of Weak Acids; Chapter 2 Introduction to Apparent Equilibrium Constants; Chapter 3 Biochemical Reactions at Specified Temperature and Various pHs; Chapter 4 Biochemical Reactions at Various pHs and Various Temperatures; Chapter 5 Biochemical Reactions at Various pHs, pMgs, and Various Temperatures; Chapter 6 Development of a Database on Species; Chapter 7 Uses of Matrices in Biochemical Thermodynamics; Chapter 8 Oxidoreductase Reactions (Class 1) at 298.15 K Chapter 9 Transferase Reactions (Class 2) at 298.15 K Chapter 10 Hydrolase Reactions (Class 3) at 298.15 K; Chapter 11 Lyase Reactions (Class 4), Isomerase Reactions (Class 5), and Ligase Reactions (Class 6) at 298.15 K; Chapter 12 Survey of Reactions at 298.15 K; Chapter 13 Survey of Reactions at Various Temperatures; Chapter 14

Thermodynamics of the Binding of Ligands by Proteins; Chapter 15  
Calorimetry of Biochemical Reactions; Appendix; 1. BasicBiochemData3.  
nb; 2. Tables of Transformed Thermodynamic Properties; 3. Glossary of  
Names of Reactants  
4. Glossary of Symbols for Thermodynamic Properties5. List of  
Mathematica Programs; 6. Sources of Biochemical Thermodynamic  
Information on the Web; Index

**Sommario/riassunto**

Navigate the complexities of biochemical thermodynamics with Mathematica(r). Chemical reactions are studied under the constraints of constant temperature and constant pressure; biochemical reactions are studied under the additional constraints of pH and, perhaps, pMg or free concentrations of other metal ions. As more intensive variables are specified, more thermodynamic properties of a system are defined, and the equations that represent thermodynamic properties as a function of independent variables become more complicated. This sequel to Robert Alberty's popular *Thermodynamics*

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**Titolo**

Beyond WEIRD: Psychobiography in Times of Transcultural and Transdisciplinary Perspectives / Claude-Hélène Mayer ... [et al.] editors

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