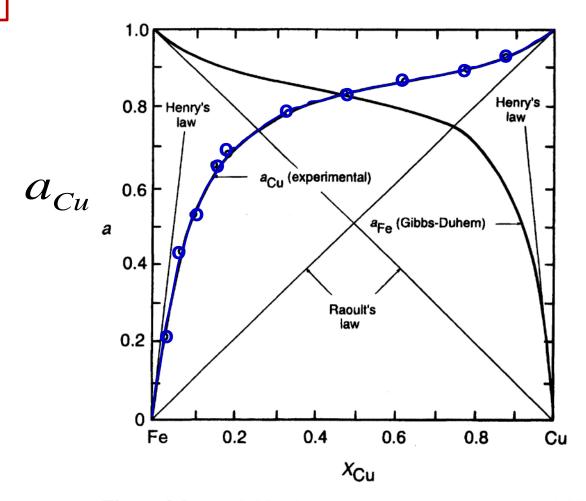
## Chapter 9 Behavior of Solutions





**Figure 9.9** Activities in the system iron-copper at 1550°C. (From J. P. Morris and G. R. Zellars, "Vapor Pressure of Liquid Copper and Activities in Liquid Fe-Cu Alloys," *Trans. AIME* (1956), vol. 206, p. 1086.)



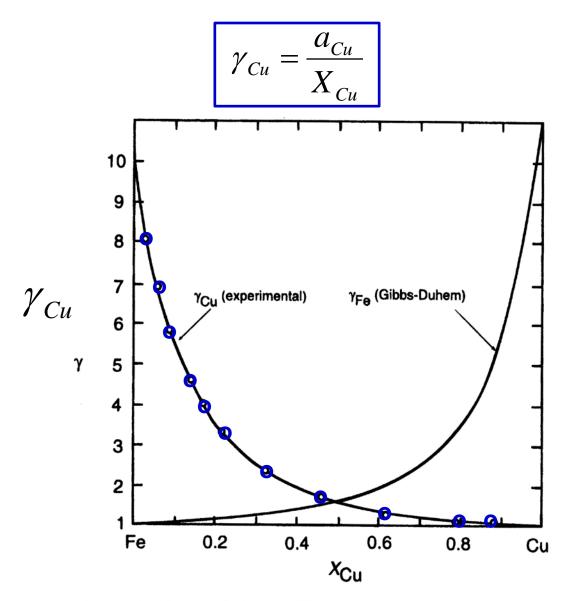
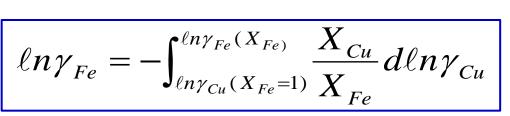
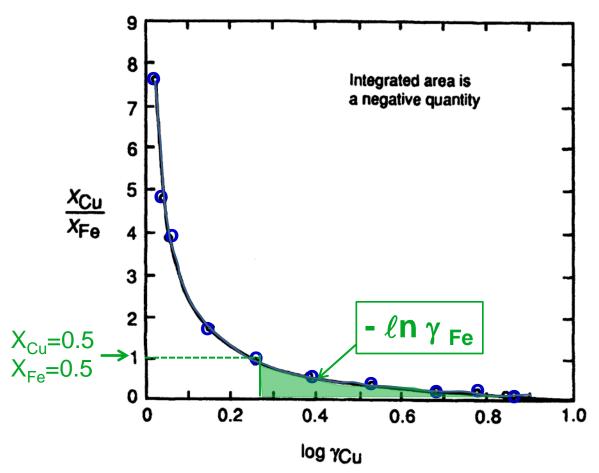


Figure 9.11 Activity coefficients in the system iron-copper at 1550°C.

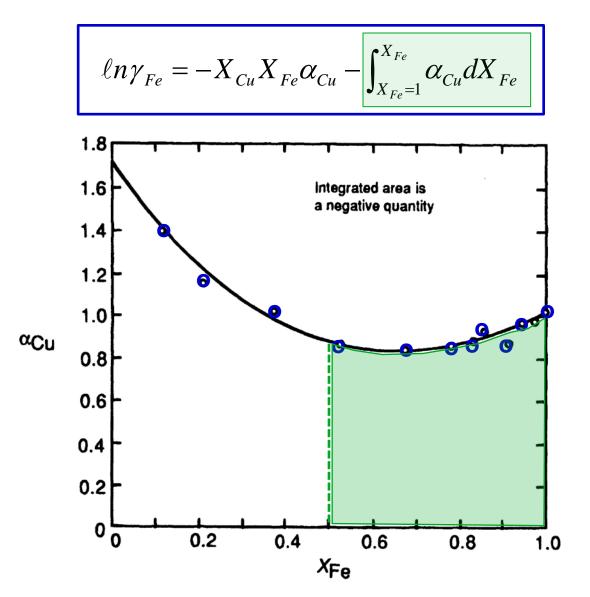






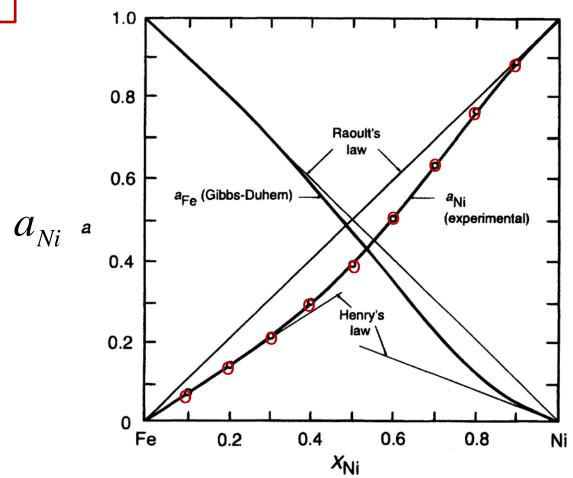
**Figure 9.15** Application of the Gibbs-Duhem equation to determination of the activity of iron in the system iron-copper.





**Figure 9.17** The variation of  $\alpha_{Cu}$  with composition in the system iron-copper.





**Figure 9.8** Activities in the system iron-nickel at 1600°C. (From G. R. Zellars, S. L. Payne, J. P. Morris, and R. L. Kipp, "The Activities of Iron and Nickel in Liquid Fe-Ni Alloys," *Trans. AIME* (1959), vol. 215, p. 181.)



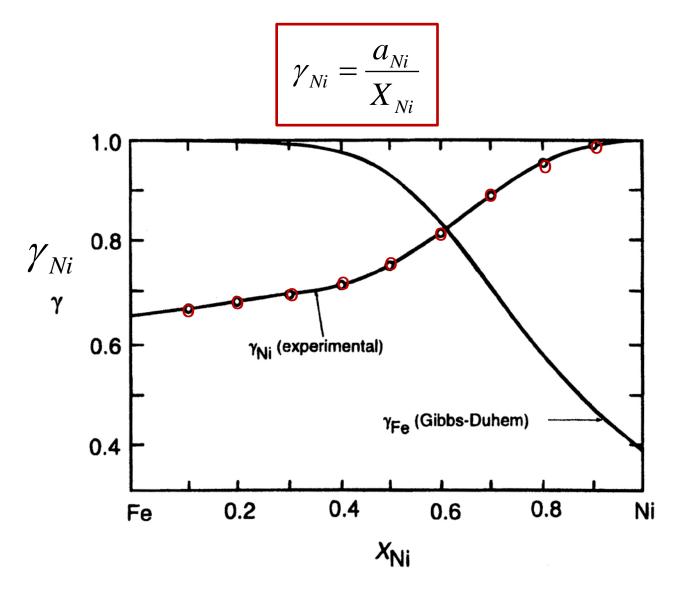
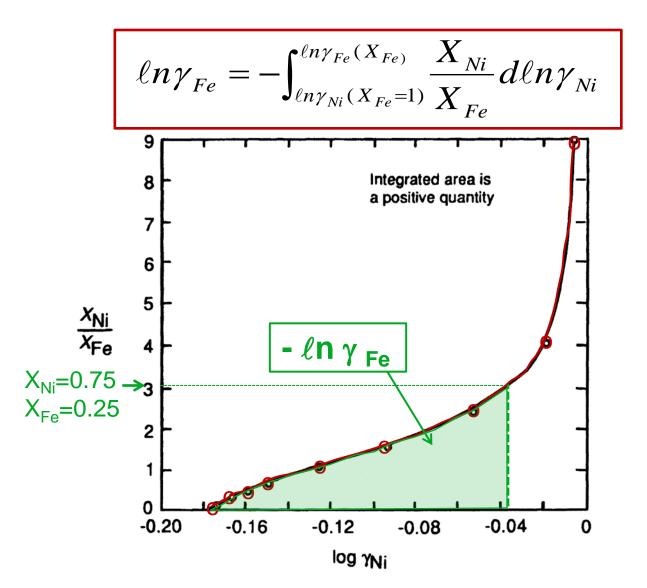


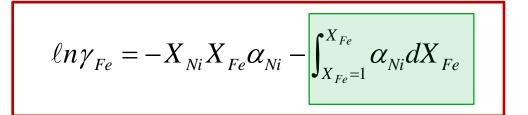
Figure 9.10 Activity coefficients in the system iron-nickel at 1600°C.

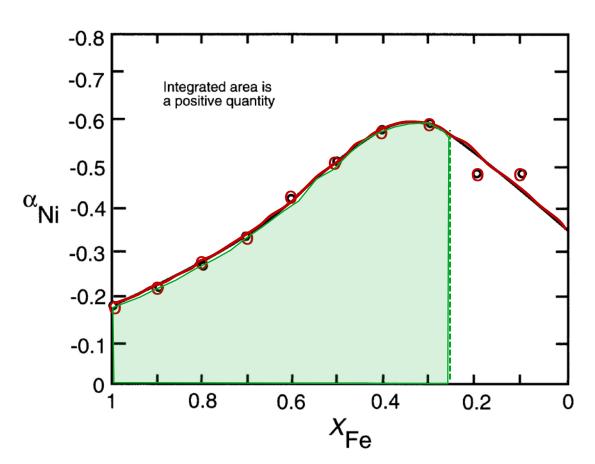




**Figure 9.14** Application of the Gibbs-Duhem equation to determination of the activity of iron in the system iron-nickel.







**Figure 9.16** The variation of  $\alpha_{Ni}$  with composition in the system iron-nickel.





## **END**

