

There are some mistakes in Chapter 1. They are related to Gibbs inequality. The following are corrections.

Page 13. Formula (1.4) should be

$$-\sum_{j=1}^n p_j \log(p_j) \leq -\sum_{j=1}^n p_j \log(q_j)$$

Page 14, line 16, the formula should be

$$-\sum_{j=1}^n p_j \log(q_j)$$

Page 14, line 25, the calculation should be

$$-0.9 \ln 0.5 - 0.1 \ln 0.5 = 0.69$$

Page 15, line 5, the calculation should be

$$-0.9 \ln 0.5 - 0.1 \ln 0.5 = 0.69$$