The Induction Book–Errata

Problem 2.1.8 parts (a) and (b): $\prod_{k=1}^{n-1}$ should be $\prod_{k=0}^{n-1}$.

Problems 2.1.17 and 2.1.18: To clarify, in Egyptian fraction decompositions the denominators must be distinct positive integers.

Problem 2.1.21: $a_1, \ldots, a_k$ should be $a_0, \ldots, a_k$ and $a_1 + \ldots + a_k$ should be $a_0 + \ldots + a_k$ throughout.

Problem 2.1.26: The answer to (a) is correct.
The answer to (b) should be: $a_n = (t+1)2^{n-1} - t$.
The answer to (c) is correct.
The answer to (d) should be: $a_n = (r+1)2^{n-1} - 1$.

Problem 2.4.3: for every $n \geq 0$ should be for every $n \geq 1$.

Problem 2.4.11: for every $n \geq 1$ and $m \geq 0$ should be for every $n \geq 0$ and $m \geq 1$.

Corollary 2.4.12: for every $n \geq 1$ should be for every $n \geq 0$ and $m \geq 1$.

Theorem 2.4.32(b): If $r_1 = r_2 = r$ should be If $r_1 = r_2 = r \neq 0$.