

**ERRATA FOR *MARKOV CHAINS AND MIXING
TIMES*, SECOND EDITION**

- Comment from Fei Cao: Inequality (2.30) is false as written. Inequality (2.30) becomes true if the RHS is multiplied by 2, which will cause the Corollary to have an additional factor of 2 as well.
- Exercise 6.4. The identity $\pi = \pi Q_t$ is false for Q_t as defined. Correct by replacing $s_x(t)$ by $s(t)$ in (a) and (6.25). (From Sanchayan Bhowal.)
- The summation in (9.14) over V should be over \mathcal{X} .
- (12.18): The eigenfunctions for SRW on the cycle given there satisfy $f_j = f_{n-j}$, so there are only $1 + \lfloor n/2 \rfloor$ of them, for $j = 0, 1, \dots, \lfloor n/2 \rfloor$.
Replacing cosine by sine for $j = 1, \dots, \lfloor (n-1)/2 \rfloor$ yields the remaining eigenfunctions. This is needed in order to be sure what the spectral gap is. This error propagates to (12.19) where the eigenfunctions claimed to be independent are double-counted and the eigenvalues we claim are distinct are repeated. Sines are needed there as well.
- Proof of Lemma 13.6, Page 182, line 3. A factor $1/2$ is missing on the RHS. This identity is valid without reversibility: in the first line of page 182, the stationarity of π can be used instead of reversibility.
- Page 211 last line after (14.26): 6 should be $6n$ (twice). This also affects the next equation
- Page 223 Theorem 15.10 statement: 4 should be 4^M . Also at the end of proof.