

From *Choice* (March 2018)

A major issue in science has always been a “lack of reproducibility.” At the heart of *Stepping in the Same River Twice* is a call for setting standards within and across disciplines in order to generate stronger and more “trustworthy” data sets. Students and researchers of all levels can benefit from the principles contained within the book, which eloquently demonstrate the strengths and weaknesses of a wide array of experimental and data collection methods. The contributors use multiple case studies exploring the problem of “non-reproducible” science from the perspectives of several different disciplines. There is an emphasis placed on the notion that for most experiments, it may not be necessary or even possible to exactly duplicate previous results; however, by establishing accepted criteria for a given discipline, reproducibility and replication are strengthened. Even reproductions that do not generate the exact same data are still valuable, provided variability is carefully analyzed and considered. Overall, the work’s contributors make a compelling case for standardizing methods and creating a more open scientific community.

Summing Up: Recommended. Lower-division undergraduates and above; faculty and professionals.

- **Reviewer:** [P. J. Yurco](#), Le Moyne College
- **Recommendation:** Recommended
- **Readership Level:** Lower-division Undergraduates, Upper-division Undergraduates, Graduate Students, Researchers/Faculty, Two-Year Technical Program Students, Professionals/Practitioners
- **Interdisciplinary Subjects:**
- **Subject:** [Science & Technology - Biology](#)
- **Choice Issue:** mar 2018 vol. 55 no. 7