

# Errata for “Stochastic Modelling for Systems Biology, third edition”

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This is the errata for the book *Stochastic Modelling for Systems Biology, third edition*, published by Chapman & Hall/CRC, November 2018. Note that there are separate errata for the first and second editions. I will update this as I (or others) spot errors, so please check regularly. I will update the date (above) with each new issue. If you have found an error not listed below, then the best way to notify me is to file an issue on the GitHub repo at:

<https://github.com/darrenjw/smfsb/issues>

But if you don't use GitHub, you can always email me at [darren.wilkinson@ncl.ac.uk](mailto:darren.wilkinson@ncl.ac.uk). Either way, please give the page number and as many details as possible.

You can get the latest version of this errata from:

<https://github.com/darrenjw/smfsb/>

- p.153. The description of how to simulate uniform order statistics isn't quite correct.
  - 1.11. The CDF should be  $F_{(1)}(x) = 1 - (1 - x/T)^m$ , and so it is now also debatable as to whether it is really “clear”!
  - 1.12. You should therefore set  $x_{(1)} = T(1 - u^{1/m})$ .
  - 1.14. You should therefore set  $x_{(i)} = x_{(i-1)} + (T - x_{(i-1)})(1 - u^{1/(m-i+1)})$ .
  - 1.20. Step (b) should then be as above.

*Thanks to GitHub user @msadeghpour for spotting this error.*

- p.301, 1.18. The marginal likelihood should be  $\pi(x)$  rather than  $\pi(y)$  here.