

ES97J: Introduction to Systems and Synthetic Biology

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Alon, Uri. 2007. An Introduction to Systems Biology: Design Principles of Biological Circuits. Vol. Chapman&Hall/CRC mathematical and computational biology series. Boca Raton, FL: Chapman & Hall/CRC. http://encore.lib.warwick.ac.uk/iii/encore/record/C__Rb2880135.

Britton, N. F. 2003. Essential Mathematical Biology. Vol. Springer undergraduate mathematics series. London: Springer.

Cosentino, Carlo, and Declan Bates. 2012. Feedback Control in Systems Biology. Boca Raton: CRC Press. http://encore.lib.warwick.ac.uk/iii/encore/record/C__Rb2873820.

Del Vecchio, Domitilla, and Richard M. Murray. 2015. Biomolecular Feedback Systems. Princeton: Princeton University Press.
http://encore.lib.warwick.ac.uk/iii/encore/record/C__Rb2905272.

Hahn, Brian D., and Daniel T. Valentine. 2017. Essential MATLAB for Engineers and Scientists. Sixth edition. Cambridge, MA: Academic Press/Elsevier Science.
<http://0-www.sciencedirect.com.pugwash.lib.warwick.ac.uk/science/book/9780081008775>.

Keener, James P., and James Sneyd. 2009. Mathematical Physiology. 2nd ed. Vol. Interdisciplinary applied mathematics. New York: Springer.
http://encore.lib.warwick.ac.uk/iii/encore/record/C__Rb2326022.

Klipp, E., Wolfram Liebermeister, Christoph Wierling, and Axel Kowald. 2016. Systems Biology: A Textbook. Second, Completely revised and Enlarged edition. Weinheim, Germany: Wiley-VCH Verlag GmbH & Co. KGaA.

Murray, J. D. 2013. Mathematical Biology: I: An Introduction. 3rd ed. Vol. Interdisciplinary applied mathematics. [New York]: Springer-Verlag.

Strogatz, Steven H. 2015. Nonlinear Dynamics and Chaos: With Applications to Physics, Biology, Chemistry, and Engineering. Second edition. Boulder, CO: Westview Press, a member of the Perseus Books Group.
http://encore.lib.warwick.ac.uk/iii/encore/record/C__Rb2920400.

Tözeren, Aydin, and Stephen W. Byers. 2004. New Biology for Engineers and Computer Scientists. Vol. Pearson Prentice Hall bioengineering. Upper Saddle River, N.J.: Pearson/Prentice Hall.