## ES97J: Introduction to Systems and Synthetic Biology



Alon, Uri. An Introduction to Systems Biology: Design Principles of Biological Circuits. Chapman & Hall/CRC, 2007, http://encore.lib.warwick.ac.uk/iii/encore/record/C Rb2880135.

Britton, N. F. Essential Mathematical Biology. Springer, 2003.

Cosentino, Carlo, and Declan Bates. Feedback Control in Systems Biology. CRC Press, 2012, http://encore.lib.warwick.ac.uk/iii/encore/record/C\_\_Rb2873820.

Del Vecchio, Domitilla, and Richard M. Murray. Biomolecular Feedback Systems. Princeton University Press, 2015, http://encore.lib.warwick.ac.uk/iii/encore/record/C\_\_Rb2905272.

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

Keener, James P., and James Sneyd. Mathematical Physiology. 2nd ed, vol. Interdisciplinary applied mathematics, Springer, 2009, http://encore.lib.warwick.ac.uk/iii/encore/record/C\_\_Rb2326022.

Klipp, E., et al. Systems Biology: A Textbook. Second, Completely revised and Enlarged edition, Wiley-VCH Verlag GmbH & Co. KGaA, 2016.

Murray, J. D. Mathematical Biology: I: An Introduction. 3rd ed, vol. Interdisciplinary applied mathematics, Springer-Verlag, 2013.

Strogatz, Steven H. Nonlinear Dynamics and Chaos: With Applications to Physics, Biology, Chemistry, and Engineering. Second edition, Westview Press, a member of the Perseus Books Group, 2015, http://encore.lib.warwick.ac.uk/iii/encore/record/C\_\_Rb2920400.

Tözeren, Aydin, and Stephen W. Byers. New Biology for Engineers and Computer Scientists. Pearson/Prentice Hall, 2004.