

### **Digestible reference for introduction to dynamical systems in neuroscience (no stochastics!)**

Izhikevich, E. M. (2007). *Dynamical systems in neuroscience*. MIT press.

### **General references for dynamical systems in neuroscience**

Ermentrout, G. B., and Terman, D. H. (2010). *Mathematical foundations of neuroscience*. Springer Science & Business Media.

Gerstner, W., Kistler, W. M., Naud, R., and Paninski, L. (2014). *Neuronal Dynamics: From Single Neurons to Networks and Models of Cognition*. Cambridge University Press.

### **Specific examples of the use of SDEs in neuroscience**

Laing, C., and Lord, G. J. (2009). *Stochastic Methods in Neuroscience*. OUP Oxford.