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Introduction to Systems Neuroscience



Anderson, Britt. 2014. Computational Neuroscience and Cognitive Modelling: A Student's Introduction to Methods and Procedures (Los Angeles: SAGE)

https://www.amazon.co.uk/Computational-Neuroscience-Cognitive-Modelling-Anderson/d p/1446249301/>

Chow, Carson C., Ecole d'été de physique théorique (Les Houches, Haute-Savoie, France), ebrary, Inc, Boris Gutkin, David Hansel, and others. 2005. Methods and Models in Neurophysics, 1st ed (Amsterdam: Elsevier)

http://site.ebrary.com/lib/reading/Doc?id=10191640

'Cplusplus.Com - The C++ Resources Network'. [n.d.]. http://www.cplusplus.com/">http://www.cplusplus.com/

Dale, Nell, and Chip Weems. 2013. Programming and Problem Solving with C++: Comprehensive, 6th ed. (Jones and Bartlett Publishers, Inc) https://www.amazon.co.uk/Programming-Problem-Solving-C-Comprehensive/dp/1284028763/

Davis, Stephen R. 2010. Beginning Programming with C++ for Dummies (Hoboken, N.J. Wiley) http://site.ebrary.com/lib/reading/detail.action?docID=10411557

Dawson, Michael. 2010. Beginning C++ Through Game Programming, 3rd ed. (Cengage Learning) http://site.ebrary.com/lib/reading/detail.action?docID=10422877

Dayan, Peter, and Larry F. Abbott. 2001. Theoretical Neuroscience: Computational and Mathematical Modeling of Neural Systems (Cambridge, Massachusetts: The MIT Press)

Dayan, Peter, Larry F. Abbott, and ebrary, Inc. 2001. Theoretical Neuroscience: Computational and Mathematical Modeling of Neural Systems (Cambridge, Mass: Massachusetts Institute of Technology Press)

https://ebookcentral.proquest.com/lib/reading/detail.action?docID=6419139

De Schutter, Erik and ebrary, Inc. 2009. Computational Modeling Methods for Neuroscientists (Cambridge, Mass: MIT Press)

http://site.ebrary.com/lib/reading/Doc?id=10340965

'Dynamical Systems in Neuroscience (Online Book)'. [n.d.]. http://www.izhikevich.org/publications/dsn.pdf

Ermentrout, Bard, and David H. Terman. 2010. Mathematical Foundations of Neuroscience (New York: Springer)

<a href="https://www.amazon.co.uk/Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematical-Foundations-Neuroscience-Interdisciplinary-Neuroscience-Interdiscipl

hematics/dp/038787707X/>

Gerstner, Wulfram, Werner M. Kistler, Richard Naud, and Liam Paninski. 22AD. Neuronal Dynamics: From Single Neurons To Networks And Models Of Cognition (Cambridge University Press)

https://www.amazon.co.uk/Neuronal-Dynamics-Neurons-Networks-Cognition/dp/1107635 195/>

Izhikevich, Eugene M. and ebrary, Inc. 2007. Dynamical Systems in Neuroscience: The Geometry of Excitability and Bursting (Cambridge, Mass: MIT Press) http://site.ebrary.com/lib/reading/Doc?id=10173655

James, Glyn. 2020. Modern Engineering Mathematics, Sixth edition (Harlow, England: Pearson) https://ebookcentral.proquest.com/lib/reading/detail.action?docID=6401118 Josuttis, Nicolai M. 2012. The C++ Standard Library: A Tutorial and Reference, 2nd ed (Upper Saddle River, NJ: Addison-Wesley)

Juneja, B.L., and Arun Seth. 2009. Programming with C++ (New Age International) http://site.ebrary.com/lib/reading/reader.action?docID=10318691

Koch, Christof and ebrary, Inc. 1999. Biophysics of Computation: Information Processing in Single Neurons (New York: Oxford University Press) http://site.ebrary.com/lib/reading/Doc?id=10531081>

Lee, Mark. 2009. C++ Programming for the Absolute Beginner, 2nd ed. (Course Technology / Cengage Learning)

http://site.ebrary.com/lib/reading/detail.action?docID=10314633

Lippman, Stanley B., Josée Lajoie, and Barbara E. Moo. [n.d.]. C++ Primer, 5th ed (Upper Saddle River, NJ: Addison-Wesley)

Lytton, William W. 2002. From Computer to Brain: Foundations of Computational Neuroscience (New York: Springer) https://ebookcentral.proguest.com/lib/reading/detail.action?docID=3035518

McGrath, Mike. 2011. C++ Programming, 4th ed. (Southam: In Easy Steps)

https://www.amazon.co.uk/C-Programming-easy-steps-4th/dp/1840784326/

Mueller, John Paul, and Jeff Cogswell. 2014. C++ All-in-One for Dummies, Third edition (Hoboken, New Jersey: John Wiley & Sons, Inc)

http://site.ebrary.com/lib/reading/Doc?id=10902327

'Neuronal Dynamics (Online Book)'. [n.d.]. http://neuronaldynamics.epfl.ch/online/index.html

Pitt-Francis, Joe, and Jonathan Whiteley. 2012. Guide to Scientific Computing in C++ (London: Springer-Verlag)

https://www.amazon.co.uk/Scientific-Computing-Undergraduate-Computer-Science/dp/1447127358/

Savitch, Walter J., and Kenrick Mock. 2012. Problem Solving with C++, 8th ed (Boston, Mass: Addison Wesley)

https://www.amazon.co.uk/Problem-Solving-Global-Walter-Savitch/dp/1292018240/

Savitch, Walter, and Kenrick Mock. 2016. Absolute C++, 6th ed. (Pearson) https://www.amazon.co.uk/Absolute-C-Global-Walter-Savitch/dp/1292098597/>

Stroud, K. A., and Dexter J. Booth. 2020. Engineering Mathematics, Eighth edition (London: Macmillan International Higher Education)

https://ebookcentral.proquest.com/lib/reading/detail.action?docID=6418157

Stroud, K.A., and Dexter J. Booth. 2011. Advanced Engineering Mathematics, 5th ed. (Basingstoke: Palgrave Macmillan)

https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486">https://www.amazon.co.uk/Advanced-Engineering-Mathematics-K-Stroud/dp/0230275486

Stroustrup, Bjarne. 2013. The C++ Programming Language, Fourth edition (Boston, [Massachusetts]: Addison-Wesley/Pearson Education)

——. 2014. Programming: Principles and Practice Using C++, Second edition (Upper Saddle River, NJ: Addison-Wesley)

Trappenberg, Thomas P. 2010. Fundamentals of Computational Neuroscience, 2nd ed (Oxford: Oxford University Press)

Tuckwell, Henry C. 1988a. Introduction to Theoretical Neurobiology (Cambridge [Cambridgeshire]: Cambridge University Press)

——. 1988b. Introduction to Theoretical Neurobiology (Cambridge [Cambridgeshire]: Cambridge University Press)