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Introduction to Systems Neuroscience



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

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

Chow, Carson C., and others, Methods and Models in Neurophysics, 1st ed (Elsevier, 2005) http://site.ebrary.com/lib/reading/Doc?id=10191640

'Cplusplus.Com - The C++ Resources Network', n.d. http://www.cplusplus.com/

Dale, Nell, and Chip Weems, Programming and Problem Solving with C++: Comprehensive, 6th ed. (Jones and Bartlett Publishers, Inc. 2013)

https://www.amazon.co.uk/Programming-Problem-Solving-C-Comprehensive/dp/1284028 763/>

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

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

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

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

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

De Schutter, Erik and ebrary, Inc, Computational Modeling Methods for Neuroscientists (MIT Press, 2009), Computational neuroscience series 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, Mathematical Foundations of Neuroscience (Springer, 2010), Interdisciplinary applied mathematics

https://www.amazon.co.uk/Mathematical-Foundations-Neuroscience-Interdisciplinary-Mathematics/dp/038787707X/

Gerstner, Wulfram, and others, Neuronal Dynamics: From Single Neurons To Networks And Models Of Cognition (Cambridge University Press, 22 AD)

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

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

James, Glyn, Modern Engineering Mathematics, Sixth edition (Pearson, 2020) https://ebookcentral.proguest.com/lib/reading/detail.action?docID=6401118>

Josuttis, Nicolai M., The C++ Standard Library: A Tutorial and Reference, 2nd ed (Addison-Wesley, 2012)

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

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

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

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

Lippman, Stanley B., Josée Lajoie, and Barbara E. Moo, C++ Primer, 5th ed (Addison-Wesley, n.d.)

Lytton, William W., From Computer to Brain: Foundations of Computational Neuroscience (Springer, 2002)

https://ebookcentral.proquest.com/lib/reading/detail.action?docID=3035518>

McGrath, Mike, C++ Programming, 4th ed. (In Easy Steps, 2011), In easy steps https://www.amazon.co.uk/C-Programming-easy-steps-4th/dp/1840784326/

Mueller, John Paul, and Jeff Cogswell, C++ All-in-One for Dummies, Third edition (John Wiley & Sons, Inc, 2014) 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, Guide to Scientific Computing in C++ (Springer-Verlag, 2012), Undergraduate topics in computer science https://www.amazon.co.uk/Scientific-Computing-Undergraduate-Computer-Science/dp/1447127358/

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

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

Savitch, Walter, and Kenrick Mock, Absolute C++, 6th ed. (Pearson, 2016)

https://www.amazon.co.uk/Absolute-C-Global-Walter-Savitch/dp/1292098597/>

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

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

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

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, Programming: Principles and Practice Using C++, Second edition (Addison-Wesley, 2014)

——, The C++ Programming Language, Fourth edition (Addison-Wesley/Pearson Education, 2013)

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

Tuckwell, Henry C., Introduction to Theoretical Neurobiology (Cambridge University Press, 1988), Cambridge studies in mathematical biology

——, Introduction to Theoretical Neurobiology (Cambridge University Press, 1988), Cambridge studies in mathematical biology