

NS2104: Biophysics, Physiology and Metabolism

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Abu-Faraj, Ziad O. Handbook of Research on Biomedical Engineering Education and Advanced Bioengineering Learning: Interdisciplinary Concepts. Hershey, Pa: Medical Information Science Reference, 2012. Web.

<<https://ebookcentral.proquest.com/lib/leicester/detail.action?docID=3311611>>.

Alberts, Bruce. Molecular Biology of the Cell (Seventh Edition). Seventh edition. W. W. Norton, 2022. Web.

<<https://bibliu.com/users/saml/samlLeicester?RelayState=eyJjdXN0b21fbGF1bmNoX3VybC16liMvdmlldy9ib29rcy85NzgwMzkzODg0NjQ3L2VwdWlVrbVVBVQi9jb250ZW50LzAuMS1jb3Zlci1pc2UuaHRtbCJ9>>.

Alonso, Marcelo and Finn, Edward J. Physics. Wokingham: Addison-Wesley, 1992. Print.

Anonymous. 'Prandtl's Essentials of Fluid Mechanics'. Mechanical Engineering 126.9 (2004): n. pag. Web.

<http://gl9sn3dh2u.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info%253Aofi%252Fenc%253AUTF-8&rft_id=info:sid/summon.serialssolutions.com&rft_val_fmt=info:ofi/fmt:kev:mtx:journal&rft.genre=article&rft.atitle=Prandtl%2527s+Essentials+of+Fluid+Mechanics&rft.jtitle=Mechanical+Engineering&rft.au=Anonymous&rft.date=2004-09-01&rft.pub=American+Society+of+Mechanical+Engineers&rft.issn=0025-6501&rft.eissn=1943-5649&rft.volume=126&rft.issue=9&rft.spage=66&rft.externalDocID=690835581¶mdict=en-US>.

'ATP Synthase Mechanism'. N.p., n.d. Web.

<<http://www.sumanasinc.com/webcontent/animations/content/atpsynthase.html>>.

Berg, Jeremy M., Tymoczko, John L., and Stryer, Lubert. Biochemistry. 7th ed. New York: W. H. Freeman, 2011. Web.

<<https://bibliu.com/users/saml/samlLeicester?RelayState=eyJjdXN0b21fbGF1bmNoX3VybC16liMvdmlldy9ib29rcy85NzgwMzE5MjQ4MDYyL2VwdWlVrT0VCUFMveGh0bWwvYmVvYXZk3ODZMTkxMTQ2NzFfY29udGVudHMuaHRtbCJ9>>.

Berne, Robert M. et al. Berne and Levy Physiology. 6th ed. Philadelphia, Pa: Mosby/Elsevier, 2008. Web.

<<https://www.clinicalkey.com/#!/browse/book/3-s2.0-C20110061689>>.

Berne, Robert M. et al. Berne and Levy Principles of Physiology. 4th ed. Philadelphia, Pa: Elsevier Mosby, 2005. Print.

'Blood Flow Through the Human Heart'. N.p., n.d. Web.

<<http://www.sumanasinc.com/webcontent/animations/content/humanheart.html>>.

Brooker, Robert J. *Biology*. 2nd ed. New York: McGraw-Hill Higher Education, 2010. Print.

'Cellular Respiration'. N.p., n.d. Web.

<<http://sumanasinc.com/webcontent/animations/content/cellularrespiration.html>>.

Chandran, K. B., A. P. Yoganathan, and Stanley E. Rittgers. *Biofluid Mechanics: The Human Circulation*. 2nd ed. Boca Raton, Fla: CRC, 2012. Web.

<<http://ebookcentral.proquest.com/lib/leicester/detail.action?docID=1449488>>.

Cooper, Geoffrey M., and Robert E. Hausman. *The Cell: A Molecular Approach*. 6th ed. Sunderland, Mass: Sinauer Associates, 2013. Print.

'Electron Transport: Aerobic and Anaerobic Conditions'. N.p., n.d. Web.

<<http://www.sumanasinc.com/webcontent/animations/content/electrontransport.html>>.

Engineer Clearly. 'Fick's First Law of Diffusion'. N.p., n.d. Web.

<<https://www.youtube.com/watch?v=Hmfnolr47Zw>>.

Everett, Tony, and Clare Kell. *Human Movement: An Introductory Text*. 6th ed. Edinburgh: Churchill Livingstone, 2010. Web.

<http://le.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=5663029840002746&institutionId=2746&customerId=2745>.

Keener, James and Sneyd, James. *Mathematical Physiology: II: Systems Physiology*.

Interdisciplinary Applied Mathematics. New York, NY: Springer New York, 2009. Web.

<<http://ezproxy.lib.le.ac.uk/login?url=http://dx.doi.org/10.1007/978-0-387-79388-7>>.

Khan Academy. 'Fick's Law of Diffusion'. N.p., n.d. Web.

<https://www.youtube.com/watch?v=Cg4Klml_acs>.

---. 'Oxygen Movement from Alveoli to Capillaries'. N.p., n.d. Web.

<<https://www.youtube.com/watch?v=nRpwdwm06lc>>.

Knight, Randall Dewey, Jones, Brian, and Field, Stuart. *College Physics: A Strategic Approach*. 2nd ed. Upper Saddle River, N.J.: Pearson Education, 2010. Print.

Lodish, Harvey F. *Molecular Cell Biology*. 7th ed. New York: W.H. Freeman, 2013. Print.

Mazumdar, J. *Biofluid Mechanics*. Singapore: World Scientific, 1992. Web.

<<https://ebookcentral.proquest.com/lib/leicester/detail.action?docID=4420825>>.

Murray, Robert K. and Harper, Harold A. *Harper's Illustrated Biochemistry*. 28th ed. New York, N.Y.: McGraw-Hill Medical, 2009. Web.

<<https://ebookcentral.proquest.com/lib/leicester/detail.action?docID=4657718>>.

'Muscle'. N.p., n.d. Web.

<<http://www.sumanasinc.com/webcontent/animations/content/muscle.html>>.

Nelson, David L., Cox, Michael M., and Lehninger, Albert L. *Lehninger Principles of Biochemistry*. 6th ed. New York, N.Y.: W.H. Freeman, 2013. Web.

<<https://bibliu.com/users/saml/samlLeicester?RelayState=eyJjdXN0b21fbGF1bmNoX3VyYyBCL6liMvdmlldy9ib29rcy85NzgxMzE5MTUwODc3L2VwdWlvdT0VCUFMveGh0bWwvbmVsXzk3O>>

DE0NjQxODc5NTdfY29udC5odG1sln0%3D>.

Nelson, Philip Charles. Biological Physics: Energy, Information, Life. Updated ed. New York: W.H. Freeman, 2008. Print.

'Newton's Law of Cooling'. N.p., n.d. Web.

<<http://www.ugrad.math.ubc.ca/coursedoc/math100/notes/diffeqs/cool.html>>.

'---'. N.p., n.d. Web.

<<http://www.biology.arizona.edu/biomath/tutorials/applications/cooling.html>>.

Raven, Peter H. et al. Biology. 10th ed. New York, NY: McGraw-Hill, 2014. Print.

Reece, Jane B. and Campbell, Neil A. Biology. 9th ed. Boston: Pearson Education, 2011. Web.

<http://le.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=5663610340002746&institutionId=2746&customerId=2745>.

'Skeletal Muscle'. N.p., n.d. Web. <<https://www.youtube.com/watch?v=H4mFWxaeMQo>>.

'The Introduction to Muscle Physiology and Design (Contents Page)'. N.p., n.d. Web.

<<http://muscle.ucsd.edu/musintro/jump.shtml>>.

Tipler, Paul A. and Mosca, Gene P. Physics for Scientists and Engineers: With Modern Physics. 6th ed. New York, NY: W.H. Freeman, 2008. Web.

<<https://bibliu.com/app/#/view/books/9781319155988/pdf2htmllex/index.html>>.

Widmaier, Eric P. et al. Vander's Human Physiology: The Mechanisms of Body Function. Thirteenth edition. New York: McGraw-Hill, 2014. Web.

<<https://bibliu.com/users/saml/samlLeicester?RelayState=eyJjdXN0b21fbGF1bmNoX3VybC16liMvdmlldy9ib29rcy85NzgxMjYwMjg5MzEyL2VwdWlvt0VCUFMvYnJpZWZfY29udGVudHMuaHRtbCJ9>>.

Young, Hugh D. College Physics. 9th ed. Harlow: Pearson Education, 2011. Print.

Zinke-Allmang, Martin. Physics for the Life Sciences. Toronto, Ont: Nelson Education, 2009. Print.