

NS2104: Biophysics, Physiology and Metabolism

View Online



1.
Young HD. College Physics. 9th ed. Pearson Education; 2011.

2.
Knight, Randall Dewey, Jones, Brian, Field, Stuart. College Physics: A Strategic Approach. 2nd ed. Pearson Education; 2010.

3.
Everett T, Kell C. Human Movement: An Introductory Text. 6th ed. Churchill Livingstone; 2010.
http://le.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=5663029840002746&institutionId=2746&customerId=2745

4.
Reece, Jane B., Campbell, Neil A. Biology. 9th ed. Pearson Education; 2011.
http://le.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=5663610340002746&institutionId=2746&customerId=2745

5.
Brooker, Robert J. Biology. 2nd ed. McGraw-Hill Higher Education; 2010.

6.
Raven, Peter H., Johnson, George B., Mason, Kenneth A., Losos, Jonathan B., Singer, Susan

R. Biology. 10th ed. McGraw-Hill; 2014.

7.

Berg, Jeremy M., Tymoczko, John L., Stryer, Lubert. Biochemistry. 7th ed. W. H. Freeman; 2011.

<https://bibliu.com/users/saml/samlLeicester?RelayState=eyJjdXN0b21fbGF1bmNoX3VybcI6liMvdmlldy9ib29rcy85NzgxMzE5MjQ4MDYyL2VwdWlvT0VCUFMveGh0bWwvYmVyXzk3ODEzMTkxMTQ2NzFfY29udGVudHMuaHRtbCJ9>

8.

Nelson, David L., Cox, Michael M., Lehninger, Albert L. Lehninger Principles of Biochemistry . 6th ed. W.H. Freeman; 2013.

<https://bibliu.com/users/saml/samlLeicester?RelayState=eyJjdXN0b21fbGF1bmNoX3VybcI6liMvdmlldy9ib29rcy85NzgxMzE5MTUwODc3L2VwdWlvT0VCUFMveGh0bWwvbmVsXzk3ODE0NjQxODc5NTdfY29udC5odG1sln0%3D>

9.

Murray, Robert K., Harper, Harold A. Harper's Illustrated Biochemistry. 28th ed. McGraw-Hill Medical; 2009.

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

10.

Berne, Robert M., Levy, Matthew N., Koepfen, Bruce M., Stanton, Bruce A. Berne and Levy Physiology. 6th ed. Mosby/Elsevier; 2008.

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

11.

Widmaier EP, Raff H, Strang KT, Vander AJ. Vander's Human Physiology: The Mechanisms of Body Function. Thirteenth edition. McGraw-Hill; 2014.

<https://bibliu.com/users/saml/samlLeicester?RelayState=eyJjdXN0b21fbGF1bmNoX3VybcI6liMvdmlldy9ib29rcy85NzgxMjYwMjg5MzE5L2VwdWlvT0VCUFMvYnJpZWZfY29udGVudHMuaHRtbCJ9>

12.

Berne RM, Levy MN, Stanton BA, Koeppen BM. Berne and Levy Principles of Physiology. 4th ed. Elsevier Mosby; 2005.

13.

Alberts B. Molecular Biology of the Cell (Seventh Edition). Seventh edition. W. W. Norton; 2022.
<https://bibliu.com/users/saml/samlLeicester?RelayState=eyJjdXN0b21fbGF1bmNoX3VybcI6liMvdmlldy9ib29rcy85NzgwMzkzODg0NjQ3L2VwdWlvRVBVQi9jb250ZW50LzAuMS1jb3Zlci1pc2UuaHRtbCJ9>

14.

Lodish HF. Molecular Cell Biology. 7th ed. W.H. Freeman; 2013.

15.

Cooper GM, Hausman RE. The Cell: A Molecular Approach. 6th ed. Sinauer Associates; 2013.

16.

Tipler, Paul A., Mosca, Gene P. Physics for Scientists and Engineers: With Modern Physics. 6th ed. W.H. Freeman; 2008.
<https://bibliu.com/app/#/view/books/9781319155988/pdf2html/index.html>

17.

Alonso, Marcelo, Finn, Edward J. Physics. Addison-Wesley; 1992.

18.

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

19.

Skeletal muscle. <https://www.youtube.com/watch?v=H4mFWxaeMQo>

20.

Blood Flow Through the Human Heart.

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

21.

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

22.

The Introduction to Muscle Physiology and Design (Contents page).

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

23.

Khan Academy. Oxygen Movement from Alveoli to Capillaries.

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

24.

Cellular respiration.

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

25.

Electron Transport: Aerobic and Anaerobic Conditions.

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

26.

ATP Synthase Mechanism.

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

27.

Newton's Law of Cooling.

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

28.

Newton's Law of Cooling.

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

29.

Khan Academy. Fick's Law of Diffusion. https://www.youtube.com/watch?v=Cg4Klml_acs

30.

Engineer Clearly. Fick's First Law of Diffusion.

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

31.

Zinke-Allmang, Martin. Physics for the Life Sciences. Nelson Education; 2009.

32.

Keener, James, Sneyd, James. Mathematical Physiology: II: Systems Physiology. Vol Interdisciplinary Applied Mathematics. Springer New York; 2009.

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

33.

Anonymous. Prandtl's Essentials of Fluid Mechanics. Mechanical Engineering. 2004;126(9). 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

34.

Mazumdar J. Biofluid Mechanics. World Scientific; 1992.

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

35.

Chandran KB, Yoganathan AP, Rittgers SE. Biofluid Mechanics: The Human Circulation. 2nd ed. CRC; 2012.

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

36.

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

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