

# ESS3805

## Biomechanical Analysis of Human Movement

[View Online](#)

Alexander, R. McN. (2000). Storage and release of elastic energy in the locomotor system and the stretchshortening cycle [in] Biomechanics and Biology of Movement. In Biomechanics and Biology of Movement (pp. 19–29). Human Kinetics.

<https://contentstore.cla.co.uk/secure/link?id=0ddaf5d6-a05f-e611-80c6-005056af4099>

Alexander, R. McN., & Vernon, A. (1975). The dimensions of knee and ankle muscles and the forces they exert [in] Journal of Human Movement Studies, Vol.1. Journal of Human Movement Studies, 1, 115–123.

<https://contentstore.cla.co.uk/secure/link?id=32437f6e-9d3c-e711-80cb-005056af4099>

Andrew A Biewener, & Full, R. J. (1992). Force platform and kinematic analysis [in] Biomechanics: structures and systems : a practical approach. In Biomechanics: structures and systems : a practical approach (pp. 45–73). IRL Press at Oxford University Press.

<https://contentstore.cla.co.uk/secure/link?id=dee44f35-1cf3-e811-80cd-005056af4099>

Bartlett, R. (2007a). Chapter 5: 'Causes of movement - forces and torques' [in] Introduction to Sports Biomechanics. In Introduction to Sports Biomechanics: Analysing Human Movement Patterns (2nd edition, pp. 213–220). Routledge.

<http://lib.myilibrary.com/browse/open.asp?id=106182&entityid=https://elibrary.exeter.ac.uk/idp/shibboleth>

Bartlett, R. (2007b). Introduction to Sports Biomechanics: Analysing Human Movement Patterns (2nd edition). Routledge.

[https://exeter.primo.exlibrisgroup.com/discovery/fulldisplay?docid=alma991002275169707446&context=L&vid=44UOEX\\_INST:default](https://exeter.primo.exlibrisgroup.com/discovery/fulldisplay?docid=alma991002275169707446&context=L&vid=44UOEX_INST:default)

Bartlett, R. (2007c). Introduction to sports biomechanics: analysing human movement patterns (2nd edition). Routledge.

[https://exeter.primo.exlibrisgroup.com/discovery/fulldisplay?docid=alma991002275169707446&context=L&vid=44UOEX\\_INST:default](https://exeter.primo.exlibrisgroup.com/discovery/fulldisplay?docid=alma991002275169707446&context=L&vid=44UOEX_INST:default)

Bartlett, R., & Bussey, M. (2012). Sports biomechanics: reducing injury risk and improving sports performance (2nd ed). Routledge.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&db=nlabk&AN=451205>

Bates, B. T., Dufek, J. S., & Davies, H. P. (1992). The effect of trial size on statistical power [in] Medicine and Science in Sports and Exercise, Vol.24, No.9. Medicine and Science in Sports and Exercise, 24(9), 1059–1068.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edsovi&AN=edsovi.00005768.199209000.00017&site=eds-live&a>

mp;scope=site

Bates, B. T., Osternig, L. R., Sawhill, J. A., & James, S. L. (1983a). An assessment of subject variability, subject-shoe interaction, and the evaluation of running shoes using ground reaction force data [in] Journal of Biomechanics. *Journal of Biomechanics*, 16(3), 181–191. <https://uoelibrary.idm.oclc.org/login?url=http://www.sciencedirect.com/science/article/pii/021929083901252>

Bates, B. T., Osternig, L. R., Sawhill, J. A., & James, S. L. (1983b). An assessment of subject variability, subject-shoe interaction, and the evaluation of running shoes using ground reaction force data [in] Journal of Biomechanics. *Journal of Biomechanics*, 16(3), 181–191. <https://uoelibrary.idm.oclc.org/login?url=http://www.sciencedirect.com/science/article/pii/021929083901252>

Bates, B. T., Osternig, L. R., Sawhill, J. A., & James, S. L. (1983c). An assessment of subject variability, subject-shoe interaction, and the evaluation of running shoes using ground reaction force data [in] Journal of Biomechanics, Vol.16, No.3. *Journal of Biomechanics*, 16(3), 181–191. [https://doi.org/10.1016/0021-9290\(83\)90125-2](https://doi.org/10.1016/0021-9290(83)90125-2)

Bobbert, M F, Schamhardt, H. C., & Nigg, B. M. (1991). Calculation of vertical ground reaction force estimates during running from positional data [in] Journal of Biomechanics. *Journal Of*, 24(12), 1095–1105. <https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPHS-610613&site=eds-live&scope=site>

Bobbert M F, Yeadon, M. R., & Nigg, B. M. (1992). Mechanical analysis of the landing phase in heel-toe running (Analyse mecanique de la phase d'impact lors de la course avec appui sur le talon d'abord) [in] Journal of Biomechanics. *Journal Of*, 25(3), 223–234. <https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPHS-607983&site=eds-live&scope=site>

Bobbert, M. F., Yeadon, M. R., & Nigg, B. M. (1992a). Mechanical Analysis of the Landing Phase in Heel-Toe Running [in] Journal of Biomechanics, Vol.25, No.3. *Journal of Biomechanics*, 25(3), 223–234. <https://contentstore.cla.co.uk/secure/link?id=3b0708f2-83f1-e811-80cd-005056af4099>

Bobbert, M. F., Yeadon, M. R., & Nigg, B. M. (1992b). Mechanical Analysis of the Landing Phase in Heel-Toe Running [in] Journal of Biomechanics, Vol.25, No.3. *Journal of Biomechanics*, 25(3), 223–234. <https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edselp&AN=002192909290022S&site=eds-live&scope=site>

Brown, R. P. (1987). Performance tests for artificial sports surfaces [in] Polymer Testing, Vol.7, No.4. *Polymer Testing*, 7(4), 279–292. <https://uoelibrary.idm.oclc.org/login?url=http://www.sciencedirect.com/science/article/pii/0142941887900249>

Burdett, R. G. (1982). Forces predicted at the ankle during running [in] Medicine and Science in Sports and Exercise, Vol.14. *Medicine and Science in Sports and Exercise*, 14, 308–316. <https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPH119686&site=eds-live&scope=site>

- Butler, R. J., Crowell, H. P., & Davis, I. M. (2003). Lower extremity stiffness: implications for performance and injury [in] Clinical Biomechanics, Vol.18, No.6. Clinical Biomechanics, 18 (6), 511–517.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edsovi&AN=edsovi.00009043.200307000.00008&site=eds-live&scope=site>
- Cavanagh, P. R., & Lafortune, M. A. (1980a). Ground reaction forces in distance running [in] Journal of Biomechanics, Vol.13, No.5. Journal of Biomechanics, 13(5), 397–406.  
<https://uoelibrary.idm.oclc.org/login?url=http://www.sciencedirect.com/science/article/pii/021929080900330>
- Cavanagh, P. R., & Lafortune, M. A. (1980b). Ground Reaction Forces in Distance Running [in] Journal of Biomechanics, Vol.13, No.5. Journal of Biomechanics, 13(5), 397–406.  
<https://uoelibrary.idm.oclc.org/login?url=http://www.sciencedirect.com/science/article/pii/021929080900330>
- Coyles, V. R., Lake, M. J., & Lees, A. (2001). Dynamic angular stiffness of the knee and ankle during barefoot and shod running [in] Proceedings of the 5th Symposium on Footwear Biomechanics. Proceedings of the 5th Symposium on Footwear Biomechanics, 26–27.
- Coyles, V. R., Lake, M. J., & Patritti, B. L. (1998). Comparative evaluation of soccer boot traction during cutting manoeuvres: methodological considerations for field testing [in] Engineering of Sport. In The Engineering of Sport (pp. 183–190). Blackwell Science Ltd.  
<https://contentstore.cla.co.uk/secure/link?id=176370ca-af5f-e611-80c6-005056af4099>
- Dainty, D. A., & Norman, R. W. (1987). Standardizing biomechanical testing in sport. Human Kinetics.
- Denoth, J. (1985). Load on the locomotor system and modelling [in] Biomechanics of Running Shoes. In Biomechanics of Running Shoes (pp. 63–116). Human Kinetics Publishers.  
<https://contentstore.cla.co.uk/secure/link?id=96a3aa7b-9f5f-e611-80c6-005056af4099>
- Dixon, S. (2013). The science and engineering of sport surfaces. Routledge.  
<http://www.vlebooks.com/vleweb/product/openreader?id=Exeter&isbn=9781136479076>
- Dixon, S. J. (2006). Application of center-of-pressure data to indicate rearfoot inversion-eversion in shod running [in] Journal of the American Podiatric Medical Association, Vol.96, No.4. Journal of the American Podiatric Medical Association, 96(4), 305–312.  
<https://uoelibrary.idm.oclc.org/login?url=http://www.japmaonline.org/doi/full/10.7547/0960305>
- Dixon, S. J., Batt, M. E., & Collop, A. C. (1999). Artificial playing surfaces research: a review of medical, engineering and biomechanical aspects [in] International Journal of Sports Medicine, Vol.20, No.4. International Journal of Sports Medicine, 20(4), 209–218.  
<https://doi.org/10.1055/s-2007-971119>
- Dixon, S. J., Collop, A. C., Singleton, T. M., & Batt, M. E. (2005). Compensatory adjustments in lower extremity kinematics in response to a reduced cushioning of the impact interface

in heel-toe running [in] Sports Engineering, Vol.8, No.1. Sports Engineering, 8(1).  
<https://uoelibrary.idm.oclc.org/login?url=http://link.springer.com/article/10.1007/BF02844131>

Dixon, S. J., & Kerwin, D. G. (2002). Variations in Achilles tendon loading with heel lift intervention in heel-toe runners [in] Journal of Applied Biomechanics, Vol.18. Journal of Applied Biomechanics, 18, 321–331.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=8503245&site=eds-live&scope=site>

Dixon, S. J., & McNally, K. (2008). Influence of orthotic devices prescribed using pressure data on lower extremity kinematics and pressures beneath the shoe during running [in] Clinical Biomechanics, Vol.23, No.5. Clinical Biomechanics, 23(5), 593–600.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edselp&AN=S0268003308000296&site=eds-live&scope=site>

Dixon, S. J., & Stiles, V. H. (2003). Impact absorption of tennis shoe-surface combinations [in] Sports Engineering, Vol.6, No.1. Sports Engineering, 6(1), 1–9.  
<http://link.springer.com/article/10.1007/BF02844155>

Dixon, S. J., Waterworth, C., Smith, C. V., & House, C. M. (2003a). Biomechanical analysis of running in military boots with new and degraded insoles [in] Medicine and Science in Sports and Exercise, Vol.35, No.3. Medicine and Science in Sports and Exercise, 35(3), 472–479.

<https://contentstore.cla.co.uk/secure/link?id=ba2d5fa2-86f1-e811-80cd-005056af4099>

Dixon, S. J., Waterworth, C., Smith, C. V., & House, C. M. (2003b). Biomechanical analysis of running in military boots with new and degraded insoles [in] Medicine and Science in Sports and Exercise, Vol.35, No.3. Medicine and Science in Sports and Exercise, 35(3), 472–479.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPHS-873160&site=eds-live&scope=site>

Farley, C. T., Glasheen, J., & McMahon, T. A. (1993). Running springs: speed and animal size [in] Journal of Experimental Biology, Vol.185. Journal of Experimental Biology, 185, 71–86.

Farley, C. T., & González, O. (1996). Leg stiffness and stride frequency in human running [in] Journal of Biomechanics, Vol.29, No.2. Journal of Biomechanics, 29(2), 181–186.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPH411975&site=eds-live&scope=site>

Farley, C. T., Houdijk, H. H. P., Van Strien, C., & Louie, M. (1998). Mechanism of leg stiffness adjustment for hopping on surfaces of different stiffnesses [in] Journal of Applied Physiology, Vol.85, No.3. Journal of Applied Physiology, 85(3), 1044–1055.  
<http://jap.physiology.org/content/85/3/1044>

Farley, C. T., & Morgenroth, D. C. (1999). Leg stiffness primarily depends on ankle stiffness during human hopping [in] Journal of Biomechanics, Vol.32, No.3. Journal of Biomechanics, 32(3), 267–273.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPH411975&site=eds-live&scope=site>

ue&amp;db=sph&amp;AN=SPHS-637675&amp;site=eds-live&amp;scope=site

Ferris, D. P., & Farley, C. T. (1997). Interaction of leg stiffness and surface stiffness during human hopping [in] *Journal of Applied Physiology*, Vol.82, No.1. *Journal of Applied Physiology*, 82(1), 15–22. <http://jap.physiology.org/content/82/1/15>

Ferris, D. P., Farley, C. T., & Louie, M. (1998). Running in the real world: adjusting leg stiffness for different surfaces [in] *Proceedings of the Royal Society: Biological Sciences*, Vol.265, No.1400. *Proceedings of the Royal Society: Biological Sciences*, 265(1400), 989–994.

[https://uoelibrary.idm.oclc.org/login?url=http://www.jstor.org/stable/51029?seq=1#page\\_scan\\_tab\\_contents](https://uoelibrary.idm.oclc.org/login?url=http://www.jstor.org/stable/51029?seq=1#page_scan_tab_contents)

Ferris, D. P., Liang, K., & Farley, C. T. (1999). Runners adjust leg stiffness for their first step on a new running surface [in] *Journal of Biomechanics*, Vol.32, No.8. *Journal of Biomechanics*, 32(8), 787–794.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edsel&AN=S0021929099000780&site=eds-live&scope=site>

Fong, D. T.-P., Chan, Y.-Y., Hong, Y., Yung, P. S.-H., Fung, K.-Y., & Chan, K.-M. (2008). A three-pressure-sensor (3PS) system for monitoring ankle supination torque during sport motions [in] *Journal of Biomechanics*, Vol.41, No.11. *Journal of Biomechanics*, 41(11), 2562–2566.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=33529918&site=eds-live&scope=site>

Hamill, J., & Knutzen, K. M. (1995). Chapter 12. Types of Mechanical Analysis [in] *Biomechanical basis of human movement*. In *Biomechanical basis of human movement* (pp. 458–468). Williams & Wilkins.

<https://contentstore.cla.co.uk/secure/link?id=67265f29-9e60-e611-80c6-005056af4099>

Hamill, J., Russell, E. M., Gruber, A. H., & Miller, R. (2011). Impact characteristics in shod and barefoot running [in] *Footwear Science*, Vol.3, No.1. *Footwear Science*, 3(1), 33–40. <https://uoelibrary.idm.oclc.org/login?url=http://www.tandfonline.com/doi/pdf/10.1080/19424280.2010.542187>

Hamill, J., van Emmerik, R. E. A., Heiderscheit, B. C., & Li, L. (1999). A dynamical systems approach to lower extremity running injuries [in] *Clinical Biomechanics*, Vol.14, No.5. *Clinical Biomechanics*, 14(5), 297–308.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=amed&AN=0005724&site=eds-live&scope=site>

Hamill, Joseph, Russell, E., Gruber, A., & Miller, R. (2011). Impact characteristics in shod and barefoot running [in] *Footwear Science*. *Footwear*, 3(Issue 1), 33–40.

<https://doi.org/10.1080/19424280.2010.542187>

Hennig, E. M., Valiant, G. A., & Liu, Q. (1996). Biomechanical variables and the perception of cushioning for running in various types of footwear [in] *Journal of applied biomechanics*, Vol.12. *Journal of Applied Biomechanics*, 12, 143–150.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=20751612&site=eds-live&scope=site>

- James, C. R. (2000). Effects of injury proneness and task difficulty on joint kinetic variability [in] Medicine and science in sports and exercise, Vol.32, No.11. Medicine and Science in Sports and Exercise, 32(11), 1833–1844.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPHS-666326&site=eds-live&scope=site>
- Keller, T., Weisberger, A., Ray, J., Hasan, S., Shiavi, R., & Spengler, D. (1996). Relationship between vertical ground reaction force and speed during walking, slow jogging, and running [in] Clinical Biomechanics. Clinical Biomechanics, 11(5), 253–259.  
<https://uoelibrary.idm.oclc.org/login?url=http://www.sciencedirect.com/science/article/pii/0268003395000682>
- Kerwin, D. G., & Dixon, S. J. (1998). The influence of heel lift manipulation on Achilles tendon loading in running [in] Journal of Applied Biomechanics, Vol.14. Journal of Applied Biomechanics, 14, 374–389.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=6139359&site=eds-live&scope=site>
- Komi, P. V. (1990). Relevance of in vivo force measurements to human biomechanics [in] Journal of Biomechanics, Vol.23. Journal of Biomechanics, 23, 23–34.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPHS-598468&site=eds-live&scope=site>
- Kuitunen, S., Komi, P. V., & Kyrolainen, H. (2002). Knee and ankle joint stiffness in sprint running [in] Medicine and Science in Sports and Exercise, Vol.34, No.1. Medicine and Science in Sports and Exercise, 34(1), 166–173.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPHS-801411&site=eds-live&scope=site>
- Lafontaine, M. A. (1997). New approach to assess in vivo rearfoot control of court footwear during sidestepping moves [in] Journal of applied biomechanics, Vol.13, No.2. Journal of Applied Biomechanics, 13(2), 197–204.  
<https://contentstore.cla.co.uk/secure/link?id=7321e665-1bf3-e811-80cd-005056af4099>
- Lafontaine, M. A., Hennig, E. M., & Lake, M. J. (1996a). Dominant role of interface over knee angle for cushioning impact loading and regulating initial leg stiffness [in] Journal of Biomechanics, Vol.29, No.12. Journal of Biomechanics, 29(12), 1523–1529.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edo&AN=ejs10417339&site=eds-live&scope=site>
- Lafontaine, M. A., Hennig, E. M., & Lake, M. J. (1996b). Dominant role of interface over knee angle for cushioning impact loading and regulating initial leg stiffness [in] Journal of Biomechanics, Vol.29, No.12. Journal of Biomechanics, 29(12), 1523–1529.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edo&AN=ejs10417339&site=eds-live&scope=site>
- Lafontaine, M. A., & Lake, M. J. (1995). Human pendulum approach to simulate and quantify locomotor impact loading [in] Journal of Biomechanics, Vol.28, No.9. Journal of Biomechanics, 28(9), 1111–1114.  
<https://uoelibrary.idm.oclc.org/login?url=http://www.sciencedirect.com/science/article/pii/02192909500002Y>

Lichtwark, G. A., & Wilson, A. M. (2006). Interactions between the human gastrocnemius muscle and the Achilles tendon during incline, level and decline locomotion [in] Journal of Experimental Biology, Vol.209, No.21. Journal of Experimental Biology, 209(21), 4379–4388. <https://doi.org/10.1242/jeb.02434>

Lieberman, D. E., Venkadesan, M., Werbel, W. A., Daoud, A. I., D'Andrea, S., Davis, I. S., Mang'Eni, R. O., & Pitsiladis, Y. (2010). Foot strike patterns and collision forces in habitually barefoot versus shod runners [in] Nature, Vol.463, No.7280. Nature, 463(7280), 531–535. <http://www.nature.com/nature/journal/v463/n7280/full/nature08723.html>

Low, D. C., & Dixon, S. J. (2010). Footscan pressure insoles: accuracy and reliability of force and pressure measurements in running [in] Gait & Posture, Vol.32, No.4. Gait & Posture, 32(4), 664–666.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=55057093&site=eds-live&scope=site>

McMahon, T. A., & Greene, P. R. (1984). The Influence of Track Compliance on Running [in] Sport Shoes and Playing Surfaces: Biomechanical Properties. In Sport Shoes and Playing Surfaces: Biomechanical Properties (pp. 138–162). Human Kinetics.

<https://contentstore.cla.co.uk/secure/link?id=57288137-a35f-e611-80c6-005056af4099>

Melvin R. Ramey. (1975a). Force plate designs and applications [in] Exercise and sport sciences reviews. Exercise and Sport Sciences Reviews, 3, 303–319.

<https://contentstore.cla.co.uk/secure/link?id=2c8886f8-1cf3-e811-80cd-005056af4099>

Melvin R. Ramey. (1975b). Force plate designs and applications [in] Exercise and sport sciences reviews. Exercise and Sport Sciences Reviews, 3, 303–319.

<https://contentstore.cla.co.uk/secure/link?id=2c8886f8-1cf3-e811-80cd-005056af4099>

Messier, S. P., & Pittala, K. A. (1988). Etiologic factors associated with selected running injuries [in] Medicine and science in sports and exercise, Vol.20, No.5. Medicine and Science in Sports and Exercise, 20(5), 501–505.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPH230288&site=eds-live&scope=site>

Milani, T. L., Schnabel, G., & Hennig, E. M. (1995). Rearfoot motion and pressure distribution patterns during running in shoes with varus and valgus wedges [in] Journal of Applied Biomechanics, Vol.11. Journal of Applied Biomechanics, 11, 177–187.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=20725400&site=eds-live&scope=site>

Miller, D. I. (1990a). Chapter 8: Ground reaction forces in distance running [in] Biomechanics of Distance Running. In Biomechanics of Distance Running (pp. 203–224). Human Kinetics Books.

<https://contentstore.cla.co.uk/secure/link?id=481344d2-9e5f-e611-80c6-005056af4099>

Miller, D. I. (1990b). Chapter 8. Ground reaction forces in distance running [in] Biomechanics of Distance Running. In Biomechanics of Distance Running (pp. 203–223). Human Kinetics Books.

<https://contentstore.cla.co.uk/secure/link?id=481344d2-9e5f-e611-80c6-005056af4099>

Nigg, B. (2009). Biomechanical considerations on barefoot movement and barefoot shoe

concepts [in] Footwear Science, Vol.1, No.2. Footwear Science, 1(2), 73–79.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=asx&AN=45483918&site=eds-live&scope=site>

Nigg, B. M. (1985). Biomechanics of Running Shoes. Human Kinetics Publishers.

Nigg, B. M. (2007). Pressure Distribution [in] Biomechanics of the Musculo-Skeletal System. In Biomechanics of the Musculo-Skeletal System (3rd ed, pp. 334–342). John Wiley & Sons.  
<https://contentstore.cla.co.uk/secure/link?id=4989093b-9d60-e611-80c6-005056af4099>

Nigg, B. M., & Herzog (eds), W. (1999). Biomechanics of the Musculo-Skeletal System (2nd ed). Wiley.

Nigg, B. M., & Herzog, W. (2007a). Biomechanics of the Musculo-Skeletal System (3rd ed). John Wiley & Sons.

Nigg, B. M., & Herzog, W. (2007b). Biomechanics of the Musculo-Skeletal System (3rd ed). John Wiley & Sons.

Nigg, B. M., & Herzog, W. (2007c). Chapter 3. Measuring Techniques [in] Biomechanics of the Musculo-Skeletal System. In Biomechanics of the Musculo-Skeletal System (3rd ed, pp. 293–333). John Wiley & Sons.

<https://contentstore.cla.co.uk/secure/link?id=c14c9fb3-0c5f-e611-80c6-005056af4099>

Nigg, B. M., Herzog, W., & Read, L. J. (1988). Effect of viscoelastic shoe insoles on vertical impact forces in heel-toe running [in] American Journal of Sports Medicine, Vol.16, No.1. The American Journal of Sports Medicine, 16(1), 70–76.  
<https://doi.org/10.1177/036354658801600113>

Nigg, B. M., Stefanyshyn, D. J., & Cole, G. K. (2003). Sport surfaces: biomechanics, injuries, performance, testing, installation. University Of Calgary, Human Performance Laboratory.

Nigg, B. M., & Yeadon, M. R. (1987). Biomechanical aspects of playing surfaces [in] Journal of Sports Sciences, Vol.5. Journal of Sports Sciences, 5, 117–145.  
<https://uoelibrary.idm.oclc.org/login?url=http://www.tandfonline.com/doi/abs/10.1080/02640418708729771>

Nordin, A. D., Dufek, J. S., & Mercer, J. A. (2017). Three-dimensional impact kinetics with foot-strike manipulations during running [in] Journal of Sport and Health Sciences. Journal of Sport and Health Science, 6(4), 489–497.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edswss&AN=000418699400019&site=eds-live&scope=site>

O'Leary, K., Anderson Vorpahl, K., & Heiderscheit, B. (n.d.). Effect of Cushioned Insoles on Impact Forces During Running [in] Journal of the American Podiatric Medical Association, Vol.98, No.1. Journal of the American Podiatric Medical Association, 98(1), 36–41.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=amed&AN=0107349&site=eds-live&scope=site>

Reinschmidt, C., & Nigg, B. M. (1995). The influence of heel height on ankle joint moments in running [in] Medicine and Science in Sports and Exercise, Vol.27. Medicine and Science

in Sports and Exercise, 27, 410–492.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPH373370&site=eds-live&scope=site>

Rugg, S. G., Gregor, R. J., Mandelbaum, B. R., & Chiu, L. (1990). In vivo moment arm calculations at the ankle using magnetic resonance imaging (MRI) [in] Journal of Biomechanics, Vol.23, No.5. Journal of Biomechanics, 23(5), 495–501.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edselp&AN=002192909090305M&site=eds-live&scope=site>

Scott, S. H., & Winter, D. A. (1990). Internal forces at chronic running injury sites [in] Medicine and Science in Sports and Exercise, Vol.22. Medicine and Science in Sports and Exercise, 22, 357–369.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPH259753&site=eds-live&scope=site>

Shorten, M., & Mientjes, M. I. V. (2011). The 'heel impact' force peak during running is neither 'heel' nor 'impact' and does not quantify shoe cushioning effects [in] Footwear Science, Vol.3, No.1. Footwear Science, 3(1), 41–58.

<https://uoelibrary.idm.oclc.org/login?url=http://www.tandfonline.com/doi/abs/10.1080/19424280.2010.542186>

Simpson, K. J., & Bates, B. T. (1990). The effects of running speed on lower extremity joint moments generated during the support phase [in] International Journal of Sport Biomechanics, Vol.6. International Journal of Sport Biomechanics, 6, 309–324.

Sports Science - LibGuides at University of Exeter. (n.d.).

<http://libguides.exeter.ac.uk/SportsScienceHomePage>

Stiles, V., & Dixon, S. (2007). Biomechanical response to systematic changes in impact interface cushioning properties while performing a tennis-specific movement [in] Journal of Sports Sciences, Vol.25, No.11. Journal of Sports Sciences, 25(11), 1229–1239.

<https://uoelibrary.idm.oclc.org/login?url=http://www.tandfonline.com/doi/abs/10.1080/02640410600983616>

Stiles, V. H. (2011). Biomechanical Response to Changes in Natural Turf during Running and Turning [in] Journal of Applied Biomechanics, Vol.27, No.1. Journal of Applied Biomechanics, 27(1), 54–63.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=59560459&site=eds-live&scope=site>

Stiles, V. H., & Dixon, S. J. (2003). The biomechanical assessment of tennis surface cushioning properties during a tennis specific movement (long abstract). International Society of Biomechanics XIXth Congress.

[https://isbweb.org/images/conf/2003/html/\\_longAbstractsByAuthor.html](https://isbweb.org/images/conf/2003/html/_longAbstractsByAuthor.html)

Stiles, V. H., & Dixon, S. J. (2006). The influence of different playing surfaces on the biomechanics of a tennis running forehand foot plant [in] Journal of Applied Biomechanics, Vol.22. Journal of Applied Biomechanics, 22, 14–24.

<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=19420344&site=eds-live&scope=site>

Stiles, V. H., James, I. T., Dixon, S. J., & Guisasola, I. N. (2009). Natural Turf Surfaces [in]

Sports Medicine, Vol.39, No.1. Sports Medicine, 39(1), 65–84.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=37709635&site=eds-live&scope=site>

Subotnick, S. I. (1985). The biomechanics of running: implications for the prevention of foot injuries [in] Sports Medicine, Vol.2. Sports Medicine, 2, 144–153.  
<https://uoelibrary.idm.oclc.org/login?url=http://link.springer.com/article/10.2165/00007256-198502020-00006>

Tessutti, V., Trombini-Souza, F., Ribeiro, A. P., Nunes, A. L., & Sacco, I. de C. N. (2010). In-shoe plantar pressure distribution during running on natural grass and asphalt in recreational runners [in] Journal of Science and Medicine in Sport, Vol.13, No.1. Journal of Science and Medicine in Sport, 13(1), 151–155.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=47113632&site=eds-live&scope=site>

Walker, C., & Blair, R. (2001). An experimental review of the McMahon/Cheng model of running [in] Sports Engineering, Vol.4, No.3. Sports Engineering, 4(3), 113–121.  
<https://doi.org/10.1046/j.1460-2687.2001.00075.x>

Windle, C. M., Gregory, S. M., & Dixon, S. J. (1999). The shock attenuation characteristics of four different insoles when worn in a military boot during running and marching [in] Gait & Posture, Vol.9, No.1. Gait & Posture, 9(1), 31–37.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPHS-784620&site=eds-live&scope=site>

Winter, D. A. (1980). Overall principle of lower limb support during stance phase of gait [in] Journal of Biomechanics, Vol.13, No.11. Journal of Biomechanics, 13(11), 923–927.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPH196667&site=eds-live&scope=site>

Winter, D. A. (1983). Moments of force and mechanical power in jogging [in] Journal of Biomechanics, Vol.16, No.1. Journal of Biomechanics, 16(1), 91–97.  
<https://uoelibrary.idm.oclc.org/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=SPH174380&site=eds-live&scope=site>