

## REFERENCES

- Agalar, F., Cakmakci, M., and I.Sayek. 1999. "Factors effecting mortality in urban vertical free falls." *Int-Surg.* 3: 271-274.
- Balfour, A.J.V. 1993. "Aerial Sorts." In *Pathology of trauma*, edited by J.K. Mason, 256-268. London: Hodder and Stronghton Limited.
- Bradáč, A. a kol. 1997. *Soudní inženýrství*. Brno: CERM.
- Coman, M., Meyer, A.D., and P.A.Cameron. 2000. "Jumping from the Westgate Bridge Melbourne." *Med. J. Aust.* 2: 67-69.
- Danko, F. 2013. "Reakční čas na náhodný podnět vyžadující komplexní motorickou odezvu." Dpl.Th., PA ČR Praha.
- De Leva, P. 1996. "Adjustments to Zatsiorsky-Selunayov's segment inertia parameters." *Journal of Biomechanics* 29, no. 9 (September):1223-1230.
- Demirarslan, H.2008. "Visual information processing and response time in traffic-signal cognition." Accessed October 9, 2008.  
<http://stinet.dtic.mil/cgi-bin/GetTRDoc?AD=ADA248165&Location=U2&doc=GetTRDoc.pdf>
- Donders, F.C. 1969. "On the speed of the mental processes." *Acta Psychologica* 30: 412-431.
- Došlá, Z., and J. Kuben. 2008. *Diferenciální počet funkcí jedné proměnné*. MU PřF, Brno.
- Gadd,C.W. 1966. "Use of weighted impulse criterion for estimating injury hazard." In: *Proc. Tenth Stapp Car Crasch Conf.* New York: Soc.Auto Engrs., no. 195:95-100.
- Garrett, R.E. et.al.1968. "Computer-aided analysis of human motion." *Kinsiology Rewiew.* AAHPER: 1-4.
- Goodacre, S., Than, M., Goyder, E.C., and A.P. Joseph. 1999. "Can the distance fallen predict serious injury after a fall from a height?" *Journal of Trauma Injury, Infection and Critical Care*, no. 6:1055-1058.
- Goonetilleke,U.K. 1980. "Injures caused by falls from height." *Med. Sci. Law*, 20, no.4: 262-275.
- Gromov, A.P. 1979. "Biomechanika travmy." Moskva: Medicina.
- Hahn, M.P., Richter, D., Ostermann, P.A.W., and G. Muhr. 1995. "Falls from a height. Injury patterns in 101 cases." *Unfallchirurg*, 12: 609-613.
- Halliday, D., and R.Resnick. 1986. "Fundamentals of physics." New York: Wiley.



- Hayes, W. C., Erickson, M. S., and E.D.Power. 2007. "Forensic injury biomechanics." *Annual Review of Biomedical Engineering*, 9:75.
- Hicling, R., and M.L.Wenner. 1973. "Mathematical model of a head subjected to an axisymmetric impact." *J. Biomechanics*, 6, no. 2.
- Chen, W.C. 1987. "A kinematic analysis of Tai Ji Chuan two-hand push." Masters Thesis. Graduate School of Physical Education. National Taiwan Normal University. Taipei, Taiwan.
- Chiu, J., and S.N. Robinovitch. 1998. "Prediction of upper extremity impact forces during falls on the outstretched hand." *Journal of Biomechanics*, 12:1169-1176.
- Jablonskij, A. A. 1977. "Kurs teoretičeskoj mehaniky," no. 2. Moskva.
- Karas, V., and S. Otáhal. 1991. "Základy biomechaniky pohybového aparátu člověka." FTVS UK, Praha.
- Karas, V., and J. Straus. 1996. "Tolerance of the Human Organism in Some Extreme Dynamical Situation. (Tolerance organismu člověka na některé extrémní dynamické situace)." In: *Biomechanika člověka 96*, no. 6: 97-100. Národní konference, Tichonice: ÚTAM AV.
- Kasanický, G., and P.Kohút. 1999. "Parametre zranenia." *Znalectvo*, IV, no. 3-4: 6-12.
- Kiran Kumar, J. V., and A.K. Srivastava. 2013. "Pattern of Injuries in Fall from Height." *J Indian Acad. Forensic Med.* 35 (Jan-March), no. 1:47-50.
- Klissouras, V., and P.V. Karpovitch. 1967. "Elektrogonometer study of lumping events." *R.Q.* 38, no.1: 41-48.
- Korsakov, S. A. 1991. "Suděbno-medicinskije aspekty biomechaniky udarnovo vzajmodějstvija tupovo tverdovo predmeta i golovy čelověka." *Sud.Med. Exp.*, XXXIV, 3.
- Knight, B. 1996. "Forensic Pathology: self-inflicted injury." London: Arnold, 231-242.
- Lau, G., Ooi, P.L., and B. Phoon. 1998. "Fatal falls from a height: the use of mathematical models to estimate the height of fall from the injuries sustained." *Forensic Sci. Int.*, 1:33-44.
- Loo-Morrey, M., and S. Jeffries. 2006. "Trip feasibility study." Accessed February 13, 2010. [www.hse.gov.uk/research/hsl\\_pdf/2006/hsl0677.pdf](http://www.hse.gov.uk/research/hsl_pdf/2006/hsl0677.pdf)
- Manning, D. P. 1983. "Deaths and injuries caused by slipping, tripping and falling." *Ergonomics*, 26, no.1:3-9.
- Mogutov, S. V. 1984. "Sudebno-medicinskaja ocenka povrežděnij kostěj čerepa sferičeskimi predmetami." Moskva. *Sud.Med. Exp.*, XXVII, no. 2.



- Nagata, H., and H. Ohno. 2007. "Analysis of backward falls caused by accelerated floor movements using a dummy." *Industrial Health*, 45:462–466.
- Nevitt, M. C., Cummings, S. R., and E.S. Hudes. 1991. "Risk factors for injurious falls: a prospective study." *Journal of Gerontology*, 46, no. 5 (September): 164–170.
- Novák, J., Skoupý, O., and I. Špička. 1991. "Sebeobrana a zákon." Praha: Klavis, 16-21.
- Olenik, V. G., Rožkov, P. A., and N.N. Kargin. 1984. "Specifika mistrovství zápasníků s různými způsoby vedení boje." *Sportivnaja borba*, 1984:8-11.
- Pavol, M. J., Owings, T. M., Foley, K. T., and M.D. Grabiner. 1999. "Gait characteristics as risk factors for falling from trips induced in older adults." *Journal of Gerontology*, 54A, no. 11: 583–590.
- Pavol, M. J., Owings, T. M., Foley, K. T., and M.D. Grabiner. 1999. "The Sex and Age of Older Adults Influence the Outcome of Induced Trips." *Journal of Gerontology*, 54A, no. 2:103–108.
- Pavrovský, J. 1977. "Poranění lbi a mozku." Praha: Avicenum.
- Polák, J. 2014. "Didaktika matematiky." Plzeň: Fraus.
- Porada, V. et al. 2000. "Silniční dopravní nehoda v teorii a praxi." Praha: Linde.
- Poulton, R. et al. 1998. "Evidence for a non-associative model of the acquisition of a fear of heights." *Behav. Res. Ther.*, 5:537-544.
- Rabl, W., Haid, CH., Katzgraber, F., and B. Walser. 1995. "Erhängen mit Dekapitation." *Archiv für Kriminologie*, 1 – 2:31-37.
- Richter, D. et al. 1996. "Vertical deceleration injuries: A comparative study of the injury patterns of 101 patients after accidental and intentional high falls." *Injury*, 9: 655-659.
- Risser, D., Bonsch, A., Schneider, B., and G. Bauer. 1996. "Risk of dying after a free fall from height." *Forensic Science International*, 3:187-191.
- Sacher, A. 1996. "The application of forensic biomechanics to the resolution of unwitnessed falling accidents (Abstract)." *Journal of forensic sciences*, 41, no. 5 (September).
- Shaw, K.P., and S.Y. Hsu. 1998. "Horizontal Distance and Height Determining Falling Pattern." *Journal of Forensic Sciences*, 4: 765-771.
- Sažajeva, O. V. 2008. "Optimizacija sudebno-medicinskoj diagnostiki mehanizmov trvmy golovy pri padenii na ploskost'." PhD diss., Sudebno-medicinskij žurnal, Moskva.
- Solochin, A.A. 1984. "Aktualnye voprosy mehogeneza povržděnij při padenija s vysoty." *Sudebno-medicinskaja expertiza*, 3:36-49.



- Smeesters, C., Hayes, W. C., and T.A.McMahon. 2001. "Disturbance type and gait speed affect fall direction and impact location." *Journal of Biomechanics*, 34:304–317.
- Smeesters, C., Hayes, W. C., and T.A.McMahon. 1999. "The threshold trip duration for which recovery is no longer possible is associated with strength and reaction time." *Journal of Biomechanics*, 34, no. 5:589–595.
- Smeesters, C., Hayes, W. C., and T.A.McMahon. 2001. "Disturbance type and gait speed affect fall direction and impact location." *Journal of Biomechanics*, 34:312–315.
- Snashall, D.C.1993. "Injury and death in the construction industry." In: Mason JK, editor. *The pathology of trauma*, edited by J.K. Mason, 269-276. London:Dodder and Stronghton Limited.
- Straus, J. 1998. "Forensic Application of Biomechanics." Závěrečná výzkumná zpráva grantu MV, RN 19971998004, Praha: PA ČR.
- Straus, J. 1999. "Forenzní biomechanika." Praha: PA ČR.
- Straus, J., and V. Porada.1999. "Concise Biomechanics of Extreme Dynamic Loading on Organism." Workshop 99 Biomechanical Modeling and Numerical Simulation. Ústav termomechaniky AV ČR Praha: 51-56.
- Straus, J. 2008. "Zkušenosti ze znalecké praxe ve forenzní biomechanice." *Kriminalistika*, 41, no. 2:130–137.
- Straus, J. 2001. "Aplikace forenzní biomechaniky." Praha: Police History, 202.
- Straus J. 2001. "Application of Forensic Biomechanics." Prague: Police History.
- Straus, J., and F. Danko. 2009. "Reakční čas na náhodný podnět vyžadující komplexní motorickou odezvu - pilotní studie." *Pohybové ústrojí*, 16, no. 1+2:52-63.
- Straus, J. 2012. "*Biomechanické aspekty pádů člověka z výšky.*" Sborník vědeckých prací „Identifikace potřeb právní praxe jako teoretický základ pro rozvoj kriminalistických a právních specializací“. Karlovy Vary: VŠKV, 288-297. Zpracováno podle Lebeděv 1986.
- Struik, D. J. 1963. "Dějiny matematiky." Praha: Orbis.
- Štaigler, M., and L. Červinka. 1971. "Aplikace technické mechaniky pro učitele." Praha:SPN.
- Tomioka, M., Owings, T. M., Lord, D., and M.D. Grabiner. 2010. "*Biomechanics of recovery from a backwards fall.*" Accessed February 2010. <http://www.asbweb.org/conferences/2001/pdf/099.pdf>



- Van den Bogert, A. J., Pavol, M. J., and M.D. Grabiner 2002. "Response time is more important than walking speed for the ability of older adults to avoid a fall after a trip." *Journal of Biomechanics*, 35, no. 2 (February): 200.
- Van den Bogert, A. J., Pavol, M. J., and M.D. Grabiner 2002. "Response time is more important than walking speed for the ability of older adults to avoid a fall after a trip." *Journal of Biomechanics*, 35, no. 2 (February): 203.
- Woodson, W. E., Tillman, B., and P. Tillman. 1991. "Human Factors Design Handbook." New York: McGraw-Hill Professional.
- Zaciorskij, V. M., and V. Selujanov. 1978. "Biomechanics of sports Techniques." Moscow: KFKS.
- Zarubin, S. V. 2003. Eksperimentalnoje modelirovanije nadenija čelovėka navznič. Chabarovsk.
- Zhou, X., Draganich, L. F., and F. Amirouche. 2002. "A dynamic model for simulating a trip and fall during gait." *Medical Engineering & Physics*, 24:121–122.