

DAFTAR PUSTAKA

- Adi, C.W., 2017, Evaluasi Lower Limb Prosthetics Produk Pusat Rehabilitasi Yakkum Yogyakarta, Universitas Gadjah Mada Yogyakarta
- Ashby, M. F., dan David R.H. Jones, 2001, Engineering Material 1: An Introduction to their Properties and Application, Butterworth-Heinemann: Linacre House.
- Awad, M.I., Abouhossein, A., Dehghani-Sanij, A.A., Richardson, R., Moser, D., Zahedi, S., Bradley, D., 2016, "Towards a Smart Semi-Active Prosthetic Leg: Preliminary Assessment and Testing", *Elsevier: IFAC-Papers onLine*, Hal: 170-176, doi: 10.1016/j.ifacol.2016.10.539
- Behera, N.K., Amputation, tersedia pada: <https://www.scribd.com/document/368491290/1-Amputation-Dr-N-K-Behera>
- Bernadheta, F.H., 2010, Kajian dynamic gait bagi pengguna prosthetic atas lutut endoskeletal sistem energy storing dengan mekanisme 2 bar, Universitas Sebelas Maret Surakarta, tersedia pada: <https://eprints.uns.ac.id/2891/>
- Binrui, W., Hualong, X., Dehong, C., Xinhe, X., 2007, Biped robot control strategy and open-closed-loop iterative learning control, *Journal of Northeastern University (Natural Science)*, Vol. 26, Hal: 722-725, doi: 10.1007/s11460-007-0019-6
- Brown, I. dan Stewart, R., 2001, Determining Inspection Intervals For Lower Limb Prosthetic Components, tersedia pada: www.monash.edu/rehabtech/research/reports/IEEE.PDF
- Cannella, F., Garinei, A., D'imperio, M., Rossi, G., 2014, A Novel Method for The Design of Prostheses Based on Thermoelastic Stress Analysis and Finite Element Analysis, *Journal of Mechanics in Medicine and Biology*, Vol. 14, doi: 10.1142/S021951941450064X
- Dabiri, Y., Najarian, S., Eslami, M.R., Zahedt, S., Farahpour, H., Moradihaghighat, R., 2010, Comparison of Passive and Active Prosthetic knee Joint Kinematics during Swing Phase of Gait, *IEEE*, doi: 10.1109/ICBME.2010.5704998
- Dincel, O., Gursel, K.T., Yildiz, H., 2007, Development and analysis of modular uniaxial leg adapter, *Prosthetics and Orthotics International*, Vol. 31, Hal: 10-26, doi: 10.1080/03093640600877919
- Dupes, B., 2014, Prosthetic Knee Systems Amputee Coalition of America in partnership with the U.S. Army Amputee Patient Care Program, Hal: 49-50,

tersedia pada: <https://www.amputee-coalition.org/resources/prosthetic-knee-systems/>

Geertzen, J.H.B., Martina, J.D., Rietman, H.S., 2001, "Lower limb amputation Part 2: Rehabilitation - a 10 year literature review", *Prosthetics and Orthotics International*, Hal: 14-20, DOI: 10.1080/03093640108726563

Gholizadeh, H., Abu Osman, N.A., Kamyab, M., Eshraghi, A., Wan Abas, W.A.B., Azam, M.N., 2012, "Transtibial prosthetic socket pistoning: Static evaluation of Seal-In® X5 and Dermo® Liner using motion analysis system", *Clinical Biomechanics*, Vol 27, Hal: 34-39, doi: 10.1016/j.clinbiomech.2011.07.004

Godlwana, L.L., 2009, "The Impact of Lower Limb Amputation on Quality of Life: A study done in the Johannesburg Metropolitan area, South Africa" tersedia pada: <https://core.ac.uk/download/pdf/39666453.pdf>

Heesewijk, A., Crocombe, A., Cirovic, S., Taylor, M., Xu, W., Evaluating the Effect of Changes in Bone Geometry on the Trans-femoral Socket-Residual Limb Interface Using Finite Element Analysis, *Springer Singapore*, volume 68/2, Hal: 587-591, doi: https://doi.org/10.1007/978-981-10-9038-7_109

Irawan, A.P., Soemardi, T.P., Widjajalaksmi, K., Reksoprodjo, A.H.S., 2011, Tensile and Flexural Strength of Ramie Fiber Reinforced Epoxy Composites For Socket Prosthesis Application, *International Journal of Mechanical and Materials Engineering (IJMME)*, Vol. 6, Hal: 46-50 tersedia pada: https://www.researchgate.net/publication/283284008_Tensile_and_Flexural_Strength_of_Ramie_Fiber_Reinforced_Epoxy_Composites_for_Socket_Prosthesis_Application

ISO, 2016, ISO 10328 : 2016 Prosthetics — Structural testing of lower-limb prostheses — Requirements and test methods preview, tersedia pada: <https://www.iso.org/standard/70205.html>

Jensen, J.S. dan Treichl, H.B., 2007, Mechanical testing of prosthetic feet utilized in low-income countries according to ISO-10328 standard, *Prosthetics and Orthotics International*, vol. 31, hal: 177-206, doi: 10.1080/03093640701210986

Jweeg, M.J., Resan, K.K., Mohammed, M.N., 2010, Design and Manufacturing of A New Prosthetic Low Cost Pylon for Amputee, *Journal of Engineering and Development*, Vol. 14, tersedia pada: <https://www.researchgate.net/publication/305222047>

Kistenberg, R.S., 2014, Prosthetic Choices for People with Leg and Arm Amputations, *Physical Medicine and Rehabilitation Clinics of North*

America, Vol. 25, Hal: 93-115, doi:
<http://dx.doi.org/10.1016/j.pmr.2013.10.001>

Kumar, A. dan Kumar, P., 2001, "Endoskeletal Prosthesis: A New Era For Amputee", *Indian Journal of Physical Medicine and Rehabilitation*, Vol. 57, Hal: 93-94, doi: 10.1016/S0377-1237(01)80121-0

Kutzner, I., Heinlein B., Graichen F., Bender A., Rohlmann A., Halder A., Beier A., Bergmann G., 2010, Loading of The Knee Joint During Activities of Daily Living Measured in vivo in Five Subjects, *Journal of Biomechanics*, Vol. 43, Hal: 2164-2173, doi:10.1016/j.jbiomech.2010.03.046

Laferrier, J.Z. dan Gailey, R., 2010, Advances in lower-limb prosthetic technology, *Physical Medicine and Rehabilitation Clinics of North America*, Vol. 21, Hal: 87-110, doi: 10.1016/j.pmr.2009.08.003

Laszczak, P., McGrath, M., Tang, J., Gao, J., Jiang, L., Bader, D.L., Moser, Zahedi, D.S., 2016, A pressure and shear sensor system for stress measurement at lower limb residuum/socket interface, *Medical Engineering and Physics*, Vol. 38, Hal: 695–700, <http://dx.doi.org/10.1016/j.medengphy.2016.04.007>

Logan, D.L., 2006, *a First Course in the Finite Element Method*, Thomson, Canada.

Manopulo, N., 2005, *An Introduction to Finite Element Methods*, *Seminar: Interplay of Mathematical Modeling and Numerical Simulation*, terdapat pada:
https://www.researchgate.net/publication/237245161_An_Introduction_to_Finite_Element_Methods

Marinelli, C., 2016, *Design, Development and Engineering of A Bench for Testing Lower Limb Prosthesis, with Focus on High-Technological Solutions*, Politecnico Di Milano Department of Mechanical Engineering Doctoral Programme In Mechanical Engineering, tersedia pada:
https://www.politesi.polimi.it/bitstream/10589/122890/1/Cristiano_Marinelli_2016.pdf

Medi, 2012, *Medi Prosthetic Products Catalogue*, tersedia pada pdf.medicalexpo.com > medi

Ndukwu, C.U. dan Muoneme, C.A., 2015, Prevalence and pattern of major extremity amputation in a tertiary Hospital in Nnewi, South East Nigeria, *Tropical Journal of Medical Research*, Vol. 18, doi: 10.4103/1119-0388.158405

Nerlich, A.G., Zink, A., Szeimies, U., Hagedorn, H.G., 2000, Ancient Egyptian prosthesis of the big toe, *Departemen of Medical History*, Vol. 356, Hal: 2176-2179, doi:[https://doi.org/10.1016/S0140-6736\(00\)03507-8](https://doi.org/10.1016/S0140-6736(00)03507-8)

- North American Society for Gait and Human Movement and AAOP Gait Society, 1994, Terminology of Human Walking, terdapat pada: <https://www.bostonoandp.com/Customer-Content/www/CMS/>
- Norton, K.M., 2007, A Brief History of Prosthetics, tersedia pada: <https://www.amputee-coalition.org>
- Nwosu, C., Babalola, M.O., Ibrahim, M.H., Suleiman, S.I., 2017, Major limb amputations in a tertiary hospital in North Western Nigeria, *African Health and Science*, doi: <https://dx.doi.org/10.4314/ahs.v17i2.26>
- Omastaa, M., Palousek, D., Návrat, T., Rosicky, J., 2012, Finite element analysis for the evaluation of the structural behaviour, of a prosthesis for trans-tibial amputees, *Elsevier: Medical Engineering & Physics*, Vol. 34, Hal: 38-45, doi: 10.1016/j.medengphy.2011.06.014
- Ottobock, Prosthetics Lower limbs Ottobock catalogue, tersedia pada: [https://www.ottobock.es/media/catálogo-de-protésica-miembro-inferior-\(gb\).pdf](https://www.ottobock.es/media/catálogo-de-protésica-miembro-inferior-(gb).pdf)
- Patrick, D., 2007, Geriatric Rehabilitation Manual, *Churchill Livingstone*, Chapter 70, doi: <https://doi.org/10.1016/B978-0-443-10233-2.X5001-9>
- Perry, J., 1992, Gait Analysis Normal and Pathological Function, Slack Incorporated, Terdapat pada: <http://gen.lib.rus.ec/book/index.php?md5=2036A63728654B85853CE8438082C2DD>
- Pithawa, Singh, G., Ravindranath, G., 2006, Clinical Appraisal of Indigenous Below Knee Endoskeletal Carbon Fibre Prosthesis, *Medical Journal Armed Forces India*, Vol: 62, Hal: 108-111, doi: 10.1016/S0377-1237(06)80048-1
- Plagenhoef, S., 1983, Anatomical Data for Analyzing Human Motion, *Research Quarterly For Exercise And Sport*, Vol. 54, No.2, PP. 169-178
- Primawati, P., 2010, Kajian Fisiologi Tiga Desain Prosthetic Kaki bagian Bawah Lutut pada Amputee dibanding Orang Normal dengan Mempertimbangkan Nilai Basal Metabolic Rate, Universitas Sebelas Maret Surakarta
- Putti, V., 2005, Historical Prostheses, *Journal of Hand Surgery*, DOI: 10.1016/j.jhsb.2005.01.001
- Radhakrishnan, P., Subramanyan, S., dan Raju, V., 2008, CAD/CAM/CIM, New Age Internasional, New Delhi.
- Sahoo, J., Mohanty, R.N., Das, S.K., 2010, Comparative Study of Laminated Exoskeletal versus Modular Endoskeletal Below Knee Prostheses, *Indian*

Journal of Physical Medicine and Rehabilitation, Vol. 21, Hal: 5-7, tersedia pada: <https://www.ijpmr.com/ijpmr201001/100102.pdf>

Sanders, J.E., Youngblood, R.T., Hafner, B.J., Cagle, J.C., McLean, J.B., Redd, C.B., Dietrich, C.R., Ciol, M.A., Allyn, K.J., 2017, Effects of socket size on metrics of socket fit in trans-tibial prosthesis users, *Medical Engineering and Physics*, Hal: 1-12, doi: <http://dx.doi.org/10.1016/j.medengphy.2017.03.003>

Scholz, M.S., Blanchfield, J.P., Bloom, L.D., Coburn, B.H., Elkington, M., Fuller, J.D., Gilbert, M.E., Muflahi, S.A., Pernice, M.F., Rae, S.I., Trevarthen, J.A., White, S.C., Weaver, P.M., Bond, I.P., 2011, The use of composite materials in modern orthopaedic medicine and prosthetic devices: A review, *Composites Science and Technology*, Vol: 71, Hal: 1791–1803 doi:10.1016/j.compscitech.2011.08.017

Smith, E., Comiskey, C., Ryall, N., 2008, Prevalence and patterns of back pain and residual limb pain in lower limb amputees at the National Rehabilitation Hospital, *Irish Journal of Medical Science*, Vol. 177, Hal: 53–57, DOI 10.1007/s11845-007-0111-1

Smith, K.C. dan Gordon, A.P., 2017, Mechanical Characterization of Prosthetic Feet and Shell Covers Using a Force Loading Apparatus, *Experimental Mechanics*, doi: 10.1007/s11340-017-0285-z

Stokes, I. A. F., W. C. Hutton And, J. R. R. Stott., 1978, Forces Acting On The Metatarsals During Normal Walking, *Anatomy Journal* 1979, 129, 3, pp. 579-590

Thurston, A.J., 2007, Pare´ And Prosthetics: The Early History of Artificial Limbs, *ANZ Journal of Surgery*, Vol. 77, Hal: 1114-1119, doi: 10.1111/j.1445-2197.2007.04330.x

Trulife, 2016, Trulife prosthetics catalogue, tersedia pada: <https://trulife.com/wp-content/uploads/Trulife-Prosthetics-Catalog-2016.pdf>

Whittle, M.W., 2007, Gait Analysis An Introduction, *Elsevier*, terdapat pada: <https://www.elsevier.com/books/an-introduction-to-gait-analysis/whittle/978-0-7506-8883-3>

WHO, 2017, Standards for prosthetics and orthotics, tersedia pada: www.who.int/phi/implementation/assistive_technology/prosthetics_orthotics/en/

Wong, M.S., Beygi, B.H., Zheng, Y., 2018, Materials for Exoskeletal Orthotic and Prosthetic Systems, *Elsevier*, doi: <https://doi.org/10.1016/B978-0-12-801238-3.11040-2>

www.indiamart.com/national-orthotic-centre/artificial-limbs.html#lower-artificial-limb, diakses pada: 1 agustus 2018

www.medicalexpo.com/prod/willow-wood/product-74952-692941.html, diakses pada: 4 agustus 2018

www.ottobock-export.com/en/prosthetics/information-for-amputees, diakses pada: 7 agustus 2018