

DAFTAR PUSTAKA

- Affatato, S. dan Brando, D., 2012, "Introduction to Wear Phenomena of Orthopaedic Implants." In *Wear of Orthopaedic Implants and Artificial Joint*, ed. Saverio Affatato. Cambridge, UK : Wood
- Alvarado, J., Maldonado, A., Marxuach, J., Otero, R., 2003, *Biomechanics of Hip and Knee Prostheses. Applications of Engineering Mechanics in Medicine*, GED, University of Puerto Rico Mayaguez
- ASM Metal Handbook, 1994, Volume 5, *Surface Engineering*, ASM International, United States of America
- Badan Pengkajian dan Penerapan Teknologi, 2016, Dukung Paket Ekonomi XI, Implan Tulang Brsopelakang BPPT Lebih Murah 70 Persen dari Impor. <https://bppt.go.id/teknologi-informasi-energi-dan-material/2597-dukung-paket-ekonomi-xi-implan-tulang-buatan-bppt-lebih-murah-70-persen-dari-harga-impor>, dipublikasikan 17 April 2016, diakses, 27 Maret 2020 pukul 16.05
- Barbour, P. S.M., M. H. Stone, dan Fisher, J., 1999, A Study of the Wear Resistance of Three Types of Clinically Applied UHMWPE for Total Replacement Hip Prostheses, *Biomaterials*, 20(22), pp. 2101–2106.
- Boretos, J.W., Eden, M., 1984, *Contemporary Biomaterials, Material and Host Response, Clinical Applications, New Technology and Legal Aspects*. Noyes Publications, Park Ridge, NJ , pp. 232–233.
- Callister, W.D., 2000, *Fundamental of Materials Science and Engineering; An Interactive E-Text*, 5th ed., John Wiley & Sons, New Jersey
- Choudhory, D., Ghosh, S., Ali, F., Vrbka, M., Hartl, M., dan Krupka, I., 2016, The influence of surface modification on friction and lubrication mechanism under a bovine serum lubricated condition, *Tribology Transaction*, 59, No. 2, pp. 316–322
- Dora, 2013, Anatomi dan Fisiologi Tulang Belakang (Bagian 1). <https://rsop.co.id/anatomi-dan-fisiologi-tulang-belakang-bagian-1/>, dipublikasikan 8 Oktober 2013, diakses 27 Maret 2020 pukul 15.40

- Dweiri, F., Al-Jarrah. M., Al Wedyan, H., 2003. Fuzzy Surface Roughness Modelling of CNC Down Milling of Alomic-79. *Journal of Materials Processing Technology*, Vol. 133. Pp. 266-275
- Dwijayanto, P., 2016, Pengaruh Durasi Diameter Steel Ball pada Proses Shoot Peening terhadap Sifat Fisis, Mekanis, dan Pengaruh Media Korosif terhadap Ketahanan Korosi Material AISI 304, *Skripsi*, Fakultas Teknik Universitas Gadjah Mada, Yogyakarta
- Edidin, A. A., & Kurtz, S. M., 2000. Influence of mechanical behavior on the wear of 4 clinically relevant polymeric biomaterials in a hip simulator. *The Journal of Arthroplasty*, 15(3), 321–331.
- Fellah, M., Labaiz, M., Assala, O., Iost, A., dan Dekhil, L., 2013, Tribological Behaviour of AISI 316L Stainless Steel for Biomedical Applications, *Tribology - Materials, Surfaces & Interfaces* 7(3), pp.135–149.
- Ferdiansyah, Waskita, H.C., Utomo, D.N., Suroto, H., Martanto, T.W., 2019, Uji Biokompatibilitas Pada Implan Orthopedi Antara Implan Impor, Implan Lokal Dari Material Impor, Dan Prototipe *Stainless Steel* 316L Dari Material Lokal. *Qanun Medika*, Vol.3 No.1 , Januari 2019.
- Fitriady, D., 2010, Pengaruh Deformasi Bending dan Forging terhadap Struktur Mikro dan Kekerasan pada Bidang Tarik dari Baja Tahan Karat 316L, *Skripsi*. Program Studi Teknik Mesin Jurusan Teknik Mesin dan Industri Fakultas Teknik Universitas Gadjah Mada, Yogyakarta.
- Geetha, M., Singh, A.K., Asokamani, R., Gogia, A.K., 2009, Ti based biomaterials, the ultimate choice for orthopaedic implants – A review. *Progress in Material Science* 54. 397-425
- Hadimi, 2008. Pengaruh Perubahan Kecepatan Pemakanan Terhadap Kekasaran Permukaan Pada Proses Pembubutan, *Jurnal Ilmiah Semesta Teknik*, Vol 11, No 1, 2008: 18-28
- Healthlinkbc.ca., 2018. Osteoarthritis of the Spine. <https://www.healthlinkbc.ca/health-topics/zm6123>, dipublikasikan 10 Juni 2018 dan diakses 7 Juni 2020 pukul 15.00

- Himarosa, Rela Adi ., Suyitno, 2016, Desain dan Analisis *Finite Element Total Lumbar Disc Replacement*. *Mekanika*, Volume 15 Nomor 2
- Hutchings, I., dan Shipway, P., 2017, *Tribology: Friction and Wear of Engineering Materials*. 2nd ed. Oxford: Butterworth-Heinemann.
- Hyde, P.J., 2012, Bio-Tribology of Total Disc Replacement of the Lumbar Spine. *Dissertation*. School of Mechanical Engineering, University of Leeds
- Hyde, P.J., Tipper, J., Fisher, J., Hall R.M., 2015, Wear and Biological Effect of a semi-constrained total disc replacement subject to modified ISO standard test condition, *Journal of the Mechanical Behavior of Biomedical Materials* 44, pg 43-52
- Khoo, L. T., Geisler, F. H., & Abitbol, J. J., 2015, Lumbar Disc Replacement. Dalam L. T. Khoo, & A. F. Ozer, *Minimally Invasive Procedures In Spine Surgery* (hal. 245-259). Intertip.
- Kurtz, S.M., 2009, *UHMWPE Biomaterials Handbook*, 2 nd. Burlington, MA, USA: Academic Press.
- Kurtz, S.M., 2016, A Premier on UHMWPE, *UHMWPE Biomaterials Handbook*. Elsevier Inc
- Lestari, Dewanti, 2017, Implan Tulang Buatan Negeri Sendiri, <https://www.antaranews.com/berita/661001/implan-tulang-buatan-negeri-sendiri>, dipublikasikan 26 Oktober 2017, Diakses 27 Maret 2020, pukul 16.00
- Lippold, J.C., dan Kotecki, D.J., 2005, *Welding Metallurgy and Weldability of Stainless Steel*. Wiley Interscience, A John Wiley & Sons, Inc., Publication
- Liza, S., Haseeb, A.S.M.A., Masjuki, H.H., dan Abbas, A.A., 2013, The Wear Behavior of Cross-Linked UHMWPE under Dry and Bovine Calf Serum–Lubricated Conditions, *Tribology Transactions*, 56(1), pp. 130-140.
- Mahadevan, V., 2018, Anatomy of the vertebral column, *Surgery*, Elsevier
- Oldani, C., & Dominguez, A., 2012, Titanium as Biomaterial for Implants. Dalam S. Fokter, *Recent Advances in Arthroplasty* (pg. 149-162). INTECH
- Park, J., and Lakes, R.S., 2007, *Biomaterials and Introductions*, 3rd ed, Springer, New York

- Patel, N.R., & Gohil, P. P., 2012, A Review on Biomaterials: Scope, Applications & Human Anatomy Significance. *International Journal of Emerging Technology and Advance Engineering*, Vol 2, 91-101
- Pratiwi, Ika Anisa, 2015, Diagnosis and Treatment Osteoarthritis. *J Majority* vol.4 no. 4
- Prayoga, Benidiktus Tulung, 2019, Tribologi *Commercially Pure-Titanium* Hasil Cor dengan Perlakuan Permukaan Oksidasi Termal untuk Aplikasi Implan Sendi Lutut. *Disertasi*. Program Studi Doktor Teknik Mesin, Fakultas Teknik, Universitas Gadjah Mada
- Raj, P. P., 2008, Intervertebral Disc: Anatomy Physiology Pathophysiology Treatment. *Pain Practice*, 18-44.
- Ramsden, J.J., Allen, D.M., Stephenson, D.J., Alcock, J.R., Peggs, G.N., Fuller, G., Goch, G., 2007, The Design and Manufacture of Biomedical Surfaces. *CIRP Annals-Manufacturing Technology*, 56(2): p. 687-711
- Reeks, J., & Liang, H., 2015, Materials and Their Failure Mechanisms in Total Disc Replacement. *lubricants*, 346-364.
- Saptono, Rahmat, 2008. Pengetahuan Bahan. Departemen Metalurgi dan Material. Fakultas Teknik, Universitas Indonesia
- Sayuti, Ilham Perdana, 2019, Mechanical Surface Finishing pada Permukaan Femoral Lutut Artifisial Berbahan Baku Stainless Steel 316l Menggunakan Metode Drag Finishing, *Tesis*, Universitas Gadjah Mada, Yogyakarta
- Stachowiak, G.W., dan Batchelor A.W., 2000, *Engineering Tribology 2nd*, Butterworth-Heinemann.
- Sumita, M., Hanawa, T., Teoh, S.H., 2004, Development of Nitrogen-Containing nickel-free austenitic stainless steel for metallic biomaterial-review. *Materials Science and Engineering C* 24. 753-760
- Sunardi, 2014, Pengaruh Variasi Waktu Shot Peening dan Electroplanting Ni-Cr terhadap Kekerasan Permukaan, kekerasan dan Laju Korosi dalam media SBF pada stainless steel 304, *Tesis*, Fakultas Teknik Universitas Gadjah Mada

- Syafa'at, I., 2008, Tribologi, Daerah Pelumasan dan Keausan. Jurusan Teknik Mesin, Fakultas Teknik, Universitas Wahid Hasyim Semarang. *Momentum*, Vol. 4, No. 2, pg 21-26
- Tathe, A., Ghodke, M., and Nikalje, A.P., 2010, A Brief Review: Biomaterials and Their Application, *International Journal of Pharmacy and Pharmaceutical Sciences*, vol. 2, pp. 19-23.
- Villarraga, M. L., & Crompton, P. A., 2004, The Clinical Performance of UHMWPE in the Spine. *The UHMWPE Handbook*, 219–243.
- Vital, J. M., & Boissiere, L., 2014, Total disc replacement. *Orthopaedics & Traumatology; Surgery & Research*, S1-S14.
- White, A. and M. Panjabi, 1990, *Clinical Biomechanics of the Spine* : J.B. Lippincott Co.
- Williams, D.F., 1992, Mechanism of Biodegradation of Implantable Polymers, *Clinical Materials*, vol. 10, pp. 9-12.
- Yamada, H., 1970. *Strength of Biological Materials*, 1st ed, Williams and Wilkins, Baltimore.
- Zenz, Courtesy R., Conference on Biomaterials WS2008, For Genomics and Bioinformatics
- Zhang, X., Zou, Y., Zeng, X., 2016, Effect of Laser Surface Remelting on the Corrosion Resistance of 316L Orthodontic Brackets, *Int. J. Electrochem. Sci.*, 11;2877-2886