

DAFTAR PUSTAKA

- Agrawal, G., Negi, Y. S., Pradhan, S., Dash, M..(2017). Wettability and contact angle of polymeric biomaterials. ... of *Polymeric Biomaterials*. <https://www.sciencedirect.com/science/article/pii/B9780081007372000030>
- Ahmed, A. A., Mhaede, M., Basha, M., Wollmann, M., & Wagner, L. (2015). The effect of shot peening parameters and hydroxyapatite coating on surface properties and corrosion behavior of medical grade AISI 316L stainless steel. *Surface and Coatings Technology*, 280, 347–358. <https://doi.org/10.1016/j.surfcoat.2015.09.026>
- Al-Murshdy, J. M. S., Hammood, A. S., & Fahad, N. D. (2021). Improvement Corrosion Behaviour of Lean Duplex Stainless Steel 2101 alloy in Ringer solution by Plasma Nitriding for Biomedical applications. *Journal of Physics: Conference Series*, 1973(1). <https://doi.org/10.1088/1742-6596/1973/1/012070>
- Al-Turaihi, A., Bader, Q., & Basim, A. (2021). Notch Effect on Aluminium Alloy Rod under Rotating Bend Fatigue Load. *IOP Conference Series: Materials Science and Engineering*, 1094, 12069. <https://doi.org/10.1088/1757-899X/1094/1/012069>
- Antoniac, I. V., Stoia, D. I., Ghiban, B., Tecu, C., Miculescu, F., Vigar, C., & Saceleanu, V. (2019). Failure analysis of a humeral shaft locking compression plate-surface investigation and simulation by finite element method. *Materials*, 12(7). <https://doi.org/10.3390/ma12071128>
- Arjunan, A., Baroutaji, A., Praveen, A. S., Robinson, J., & Wang, C. (2021). Classification of Biomaterial Functionality. Dalam *Encyclopedia of Smart Materials* (hlm. 86–102). Elsevier. <https://doi.org/10.1016/B978-0-12-815732-9.00027-9>
- ASM. (2000). *ASM Handbook: Surface Engineering* (Vol. 5).
- ASM Metal Handbook. (2000). *Materials for Medical Devices* (Vol. 23).
- ASTM. (2009). *ASTM A240/A240M*.
- Azar, V., Hashemi, B., & Rezaee Yazdi, M. (2010). The effect of shot peening on fatigue and corrosion behavior of 316L stainless steel in Ringer's solution. *Surface and Coatings Technology*, 204(21–22), 3546–3551. <https://doi.org/10.1016/j.surfcoat.2010.04.015>
- BAHRI, A. S. (2016). *PENGARUH DURASI DAN DIAMETER STEEL BALL PADA PROSES SHOT PEENING TERHADAP SIFAT FISIS, MEKANIS DAN PENGARUH MEDIA KOROSIF*. [etd.repository.ugm.ac.id. http://etd.repository.ugm.ac.id/penelitian/detail/106732](http://etd.repository.ugm.ac.id/penelitian/detail/106732)

- BPS. (2020). *Jumlah Penduduk Hasil Proyeksi Menurut Provinsi dan Jenis Kelamin (Ribu Jiwa), 2018-2020*.
- Callister, W. D. , Jr. (2018). *Materials Science and Engineering: An Introduction* (10 ed.). John Wiley & Sons, Inc.
- Casteletti, L. C., Neto, A. L., & Totten, G. E. (2014). Nitriding of Stainless Steels. *Metallography, Microstructure, and Analysis*, 3(6), 477–508. <https://doi.org/10.1007/s13632-014-0170-4>
- Chamberlain, J. (1991). *Korosi*. PT. Gramedia Pustaka Utama.
- Di Schino, A., & Testani, C. (2020). Corrosion behavior and mechanical properties of AISI 316 stainless steel clad Q235 plate. *Metals*, 10(4). <https://doi.org/10.3390/met10040552>
- Dieter, E., & Bacon, D. (1987). *Mechanical Metallurgy 3rd ed*. Mc Graw-Hill Book Co.
- Doshi, B., Sillanpää, M., & Kalliola, S. (2018). A review of bio-based materials for oil spill treatment. Dalam *Water Research* (Vol. 135, hlm. 262–277). Elsevier Ltd. <https://doi.org/10.1016/j.watres.2018.02.034>
- Faizal Sadali, M., Zaki Hassan, M., Huda Ahmad, N., Yahya, H., Farhan Mohd Nor, A., Malaysia, T., Sultan Yahya Petra, J., & Lumpur, K. (2019). Effect of Hatching Distance on Surface Morphology and Surface Roughness of the Ti6Al4V for Biomedical Implant using SLM Process. Dalam *Mohd Faizal Sadali et al. Malaysian Journal of Microscopy* (Vol. 15).
- Gdoutos, E. E. (2020). Fatigue and Environment-Assisted Fracture. Dalam *Fracture Mechanics: An Introduction* (hlm. 287–320). Springer International Publishing. https://doi.org/10.1007/978-3-030-35098-7_9
- Gontung, A. T., Pingkan, E., Egam, P., & Karongkong, H. H. (t.t.). *ORTHOPAEDIC DAN TRAUMATOLOGY CENTER DI MANADO “Sustainable Healthcare Architecture.”*
- Gopi, R., Saravanan, I., Devaraju, A., & Loganathan, G. babu. (2020). Investigation of shot peening process on stainless steel and its effects for tribological applications. *Materials Today: Proceedings*, 22, 580–584. <https://doi.org/10.1016/j.matpr.2019.08.215>
- Gusrita, D. (2014). Pengaruh Viskositas Fluida Terhadap Sifat Hydrophobic dari Berbagai Macam Daun. *Pillar of Physics*. <http://ejournal.unp.ac.id/students/index.php/fis/article/viewFile/1118/810>
- Hadimi, H. (2008). Pengaruh Perubahan Kecepatan Pemakanan Terhadap Kekasaran Permukaan Pada Proses Pembubutan. *Semesta Teknika*. <http://journal.umy.ac.id/index.php/st/article/view/773>
- Hilgendorff, P. M., Grigorescu, A. C., Zimmermann, M., Fritzen, C. P., & Christ, H. J. (2017). Cyclic deformation behavior of austenitic stainless steels in

the very high cycle fatigue regime - Experimental results and mechanism-based simulations. *Journal of Materials Research*, 32(23), 4387–4397. <https://doi.org/10.1557/jmr.2017.312>

Hoshiyama, Y., Takatera, R., & Maruoka, T. (2019). Effect of active screen plasma nitriding on fatigue characteristics of austenitic stainless steel. *Materials Transactions*, 60(8), 1638–1642. <https://doi.org/10.2320/matertrans.M2019066>

Kale, A. B., Kim, B. K., Kim, D. I., Castle, E. G., Reece, M., & Choi, S. H. (2020). An investigation of the corrosion behavior of 316L stainless steel fabricated by SLM and SPS techniques. *Materials Characterization*, 163. <https://doi.org/10.1016/j.matchar.2020.110204>

Kanchanomai, C., Muanjan, P., & Phiphobmongkol, V. (2010). Stiffness and Endurance of a Locking Compression Plate Fixed on Fractured Femur. Dalam *Journal of Applied Biomechanics* (Vol. 26).

Kondi Maliwemu, E. U., Malau, V., & Tri Iswanto, P. (2019). Corrosion Resistance of 316L Biomaterial in Simulated Body Fluid by Modification of Shot Distance and Shot Angle of Shot Peening. *IOP Conference Series: Materials Science and Engineering*, 553(1). <https://doi.org/10.1088/1757-899X/553/1/012053>

Lee, D. H., & Cho, N. G. (2012). Assessment of surface profile data acquired by a stylus profilometer. *Measurement science and technology*. <https://doi.org/10.1088/0957-0233/23/10/105601>

Li, R., Yuan, X., Li, T., Hong, M., Tao, S., Chen, Z., & Wang, G. (2021). Effect of High Energy Shot Peening on the Microstructure and Mechanical Property of AZ31B Mg Alloy/HSLA350 Steel Lap Joints. *International Journal of Precision Engineering and Manufacturing*, 22(5), 831–841. <https://doi.org/10.1007/s12541-021-00501-5>

Li, Y., Wang, Z., & Wang, L. (2014). Surface properties of nitrided layer on AISI 316L austenitic stainless steel produced by high temperature plasma nitriding in short time. *Applied Surface Science*, 298, 243–250. <https://doi.org/10.1016/j.apsusc.2014.01.177>

Mahardika, M., & Saputra, Y. (2014). PENINGKATAN KUALITAS PERMUKAAN PADA STAINLESS STEEL 316L DENGAN METODE COLD WORKING. *Jurnal Teknologi*. <https://ejournal.akprind.ac.id/index.php/jurtek/article/view/1028>

Mali, A. S., Vagge, S. T., & Rathod, M. J. (2023). Mapping the Accouterment Effects of Plasma Nitriding on AISI 316L in Biomedical Applications. *Coatings*, 13(5). <https://doi.org/10.3390/coatings13050839>

- Manivasagam, G., Dhinasekaran, D., & Rajamanickam, A. (2010). Biomedical Implants: Corrosion and its Prevention-A Review. Dalam *Recent Patents on Corrosion Science* (Vol. 2).
- Marcomini, J. B., Baptista, C. A. R. P., Pascon, J. P., Teixeira, R. L., & Reis, F. P. (2014). Investigation of a fatigue failure in a stainless steel femoral plate. *Journal of the Mechanical Behavior of Biomedical Materials*, 38, 52–58. <https://doi.org/10.1016/j.jmbbm.2014.06.011>
- Mariappan, K., Shankar, V., Sandhya, R., Bhaduri, A. K., & Laha, K. (2016). A Comparative Evaluation of the Effect of Low Cycle Fatigue and Creep–Fatigue Interaction on Surface Morphology and Tensile Properties of 316L(N) Stainless Steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, 47(4), 1575–1586. <https://doi.org/10.1007/s11661-015-3270-0>
- Martín, V., Vázquez, J., Navarro, C., & Domínguez, J. (2020). Effect of shot peening residual stresses and surface roughness on fretting fatigue strength of Al 7075-T651. *Tribology International*, 142. <https://doi.org/10.1016/j.triboint.2019.106004>
- Mitra, S. (2016). *Finite element surface analysis of cosmetic finishing applications Shot Peening*. <https://doi.org/10.13140/RG.2.2.23540.55688>
- Nabeel, M., Farooq, A., Miraj, S., Yahya, U., Hamad, K., & Deen, K. M. (2022). Comparison of the Properties of Additively Manufactured 316L Stainless Steel for Orthopedic Applications: A Review. *World Scientific Annual Review of Functional Materials*. <https://doi.org/10.1142/s281092282230001x>
- Nikmah, A., Izak Rudyardjo, D., Ady, J., & Taufiq, A. (2019). Studies on Density, Corrosion Rate and Hardness Characteristics of Stainless Steel Implanted by Nitrogen Ion. *IOP Conference Series: Materials Science and Engineering*, 515(1). <https://doi.org/10.1088/1757-899X/515/1/012018>
- Obiany, I. (2019). *LABORATORY MANUAL FOR HARDNESS TEST*.
- Odnobokova, M., Yanushkevich, Z., Kaibyshev, R., & Belyakov, A. (2020). On the strength of a 316L-Type Stainless steel subjected to cold or warm rolling followed by Annealing. *Materials*, 13(9). <https://doi.org/10.3390/ma13092116>
- Olanrewaju Yusuf, B., & Manurung, Y. (2020). Welded high strength low alloy steel influence on fatigue crack propagation using lefm: A practical and thematic review. *Structural Integrity and Life*, 20, 263.
- Pathote, D., Jaiswal, D., Singh, V., & Behera, C. K. (2022). Optimization of electrochemical corrosion behavior of 316L stainless steel as an effective biomaterial for orthopedic applications. *Materials Today: Proceedings*, 57, 265–269. <https://doi.org/10.1016/j.matpr.2022.02.501>

- Payana, D., Widiyarta, I. M., & Sucipta, M. (2018). Kekerasan Baja Karbon Sedang dengan Variasi Suhu Permukaan Material. *Jurnal METTEK*, 4(2), 43. <https://doi.org/10.24843/mettek.2018.v04.i02.p02>
- Peltz, J. S., Beltrami, L. V. R., Kunst, S. R., Brandolt, C., (2015). Effect of the shot peening process on the corrosion and oxidation resistance of AISI430 stainless steel. *Materials*.
<https://www.scielo.br/j/mr/a/xXZRB6ZGHgfjKmQRnrdzjck/abstract/?lang=en>
- Rafsanjani, M. H. (2017). *Pengaruh Tekanan Shot Peening Terhadap Kekerasan dan Laju Korosi U-Bending Baja Karbon Rendah ASTM A-36*. repository.ub.ac.id. <http://repository.ub.ac.id/3373/>
- Rahimi, E., Kosari, A., Hosseinpour, S., Davoodi, A., Zandbergen, H., & Mol, J. M. C. (2019). Characterization of the passive layer on ferrite and austenite phases of super duplex stainless steel. *Applied Surface Science*, 496. <https://doi.org/10.1016/j.apsusc.2019.143634>
- Rupp, F., Gittens, R. A., Scheideler, L., Marmur, A., Boyan, B. D., Schwartz, Z., & Geis-Gerstorfer, J. (2014). A review on the wettability of dental implant surfaces I: Theoretical and experimental aspects. Dalam *Acta Biomaterialia* (Vol. 10, Nomor 7, hlm. 2894–2906). Elsevier Ltd. <https://doi.org/10.1016/j.actbio.2014.02.040>
- Shandookh, A. (2016). *Experimental Study of Plasma Shot Peening and Laser Shock Peening on Mechanical Properties and Fatigue Life of a Certain Aluminum Alloys*.
- Singh, G. P., Alphonsa, J., Barhai, P. K., Rayjada, P. A., Raole, P. M., & Mukherjee, S. (2006). Effect of surface roughness on the properties of the layer formed on AISI 304 stainless steel after plasma nitriding. *Surface and Coatings Technology*, 200(20–21), 5807–5811. <https://doi.org/10.1016/j.surfcoat.2005.08.149>
- Sivaraj, D., & Vijayalakshmi, K. (2019). Novel synthesis of bioactive hydroxyapatite/f-multiwalled carbon nanotube composite coating on 316L SS implant for substantial corrosion resistance and antibacterial activity. *Journal of Alloys and Compounds*, 777, 1340–1346. <https://doi.org/10.1016/j.jallcom.2018.10.341>
- Sujita, S. (2011). Pengaruh Perlakuan Shot Peening Terhadap Korosi Retak Tegang Baja Karbon Rendah Pada Lingkungan Korosif. *Dinamika Teknik Mesin*. <https://www.neliti.com/publications/59498/pengaruh-perlakuan-shot-peening-terhadap-korosi-retak-tegang-baja-karbon-rendah>
- Sunardi, Iswanto, T. P., & Mudjijana. (2013a). Pengaruh Waktu Shot Peening terhadap Kekerasan dan Kekasaran Permukaan Stainless Steel AISI 304. *Seminar Nasional ke 8: Rekayasa Teknologi Industri dan Informasi Sekolah Tinggi Teknologi Nasional*, 142–145.

- Sunardi, Iswanto, T. P., & Mudjijana. (2013b). Pengaruh Waktu Shot Peening terhadap Kekerasan dan Kekasaran Permukaan Stainless Steel AISI 304. *Seminar Nasional ke 8: Rekayasa Teknologi Industri dan Informasi Sekolah Tinggi Teknologi Nasional*, 142–145.
- Sunardi, S., Iswanto, P. T., & Mudjijana, M. (2015). Peningkatan Ketahanan Korosi Pada Material Biomedik Plat Penyambung Tulang SS 304 Dengan Gabungan Metode Shot peening dan Electroplating Ni-Cr. *Semesta Teknika*. <http://journal.umy.ac.id/index.php/st/article/view/1817>
- Travessa, D. N., Sobrinho, A. S. da S., Júnior, A. M. J., & Roche, V. (2019). Surface plasma nitriding of beta-titanium alloy bio-material. *Key Engineering Materials*, 813 KEM, 328–333. <https://doi.org/10.4028/www.scientific.net/KEM.813.328>
- Unal, O., Maleki, E., & Varol, R. (2021). Comprehensive analysis of pulsed plasma nitriding preconditions on the fatigue behavior of AISI 304 austenitic stainless steel. *International Journal of Minerals, Metallurgy and Materials*, 28(4), 657–664. <https://doi.org/10.1007/s12613-020-2097-x>
- Widodo, T. D., Raharjo, R., Kusumaningsih, H., & ... (2015). *Modifikasi Kekerasan Baja Tahan Karat AISI 316L Dengan Menggunakan Proses Steel Ball Peening*. eprints.ulm.ac.id. <http://eprints.ulm.ac.id/707/>
- Yang, S., Zeng, W., & Yang, J. (2020). Characterization of shot peening properties and modelling on the fatigue performance of 304 austenitic stainless steel. *International Journal of Fatigue*, 137, 105621. <https://doi.org/10.1016/j.ijfatigue.2020.105621>
- Yaqin, R. I. (2017). PENGARUH DURASI SHOT PEENING TERHADAP STRUKTUR MIKRO DAN KEKERASAN PERMUKAAN PADA AISI 316L. *Conference SENATIK STT Adisutjipto Yogyakarta*, 3. <https://doi.org/10.28989/senatik.v3i0.120>
- Yaqin, R. I., Iswanto, P. T., & Priyambodo, B. H. (2017). Pengaruh durasi shot peening terhadap struktur mikro dan kekerasan permukaan pada AISI 316L. *Conference SENATIK* <https://senatik.itda.ac.id/index.php/senatik/article/view/120>
- Zaman, H. A., Sharif, S., Idris, M. H., & Kamarudin, A. (2015). Metallic Biomaterials for Medical Implant Applications: A Review. *Applied Mechanics and Materials*, 735, 19–25. <https://doi.org/10.4028/www.scientific.net/amm.735.19>
- Zhang, Y., & Xu, X. (2021). Machine learning cutting force, surface roughness, and tool life in high speed turning processes. *Manufacturing Letters*, 29, 84–89. <https://doi.org/10.1016/j.mfglet.2021.07.005>