

DAFTAR PUSTAKA

- Aksoy, D., Balta, E. C., Tilbury, D. M., dan Barton, K. (2020). A Control-Oriented Model for Bead Cross-Sectional Geometry in Fused Deposition Modeling. *2020 American Control Conference*.
- ASTM-D638-14. (2014). Standard Test Method for Tensile Properties Of Plastics. *ASTM Standards*.
- ASTM-D695-15. (2008). Standard Test Method for Compressive Properties of Rigid Plastics. *ASTM International*.
- Bakır, A. A., Atik, R., dan Özerinç, S. (2021). Effect of Fused Deposition Modeling Process Parameters on The Mechanical Properties of Recycled Polyethylene Terephthalate Parts. *Journal of Applied Polymer Science*, 138(3), 1–12.
- Bellehumeur, C., Li, L., Sun, Q., & Gu, P. (2004). Modeling of bond formation between polymer filaments in the fused deposition modeling process. *Journal of Manufacturing Processes*, 6(2), 170-178.
- Coogan, T. J., & Kazmer, D. O. (2017). Healing simulation for bond strength prediction of FDM. *Rapid Prototyping Journal*, 23(3), 551-561.
- Dassault Systèmes. (2019). Units. Diakses pada Juni 30, 2021, dari https://help.3ds.com/2019/english/DSSIMULIA_Established/SIMACAECSARefMap/simagsa-c-absunits.html
- Dawoud, M., Taha, I., da Ebeid, S. J. (2016). Mechanical Behaviour of ABS: An Experimental Study Using FDM and Injection Moulding Techniques. *Journal of Manufacturing Processes*, 21, 39–45.
- Garg, A., dan Bhattacharya, A. (2017). An Insight to the Failure of FDM Parts Under Tensile Loading: Finite Element Analysis and Experimental Study. *International Journal of Mechanical Sciences*, 120, 225–236.
- Garzon-Hernandez, S., Garcia-Gonzalez, D., Jérusalem, A., dan Arias, A. (2020). Design of FDM 3D Printed Polymers: An Experimental-modelling Methodology for The Prediction of Mechanical Properties. *Materials and Design*, 188, 108414.
- Hasdiansah, & Herianto. (2018). Pengaruh Parameter Proses 3D Printing Terhadap Elastisitas Produk Yang Dihasilkan. *Seminar Nasional Inovasi Teknologi UN PGRI*, 187-192. Kediri: UN PGRI Kediri.
- Hibbeler, R. C. (2001). Mechanics of Materials Eight Edition. In *Pearson Prentice Hall*
- Huang, B., & Singamneni, S. (2015). Raster angle mechanics in fused deposition modeling. *Journal of Composite Materials*, 49(3), 363-383.
- Iman, T. N. (2020). Studi Pengaruh Suhu Ekstrusi dan Orientasi Raster Terhadap Sifat Mekanis Thermoplastic Polyurethane (TPU) Dengan Proses Fused Deposition Modelling (FDM) Untuk Aplikasi Total Disk Replacement (TDR). Universitas Gadjah Mada.
- Jing, X., Mi, H.-Y., Salick, M. R., Peng, X.-F., dan Turng, L.-S. (2013). Preparation of Thermoplastic Polyurethane/Graphene Oxide Composite

- Scaffolds by Thermally Induced Phase Separation. *Polymer Composites*, 35(7), 1408–1417.
- Kim, S-K., Kim, J-Hw., Kim, J-Hy., Lee, J-M. (2018). Numerical Model for Mechanical Nonlinearities of High Manganese Steel Based on the Elastoplastic Damage Model. *Metals* 2018, 8, 680. Pusan National University.
- Law, A. M., & W. D. Kelton. (1991). Simulation Modeling and Analysis.
- Li, H., Fu, M. W., Lu, J., dan Yang, H. (2011). Ductile Fracture: Experiments and Computations. *International Journal of Plasticity*, 27(2), 147–180.
- Ligon, S. C., Liska, R., Stampfl, J., Gurr, M., dan Mülhaupt, R. (2017). Polymers for 3D Printing and Customized Additive Manufacturing. *Chemical Reviews*, 117(15), 10212.
- Mi, H. Y., Palumbo, S, M., Jing, X., Turng, L. S., W. J., & Peng, X. F. (2014). Thermoplastic polyurethane/hydroxyapatite electrospun scaffolds for bone tissue engineering: Effects of polymer properties and particle size. *Journal of Biomedical Materials Research – Part B Applied Biomaterials*, 102(7), 1434-1444.
- Miftakhudin, 2015. Aplikasi Parametric Modelling dan Analisis Finite Element Pada Perancangan Ulang Artificial Knee Joint Berdasarkan Ukuran Sendi Lutut Populasi Indonesia. Universitas Gadjah Mada.
- Nairn, J. A. (2006). Numerical Simulations of Transverse Compression and Densification in Wood. *Journal of the Society of Wood Science and Technology*, 38(4).
- Ngo, T. D., Kashani, A., Imbalzano, G., Nguyen, K. T. Q., & Hui, D. (2018). Additive manufacturing (3D printing): A review of materials, methods, applications and challenges. *Composites Part B: Engineering*, 143(December 2017), 172-196.
- Parandoush, P., & Lin, D. (2017). A review on additive manufacturing of polymer-fiber composites. *Composite Structures*, 182, 36-53.
- Papon, E. A., dan Haque, A. (2018). Tensile Properties, Void Contents, Dispersion and Fracture Behaviour of 3D Printed Carbon Nanofiber Reinforced Composites. *Journal of Reinforced Plastics and Composites*, 37(6), 381–395.
- Patanwala, H. S., Hong, D., Vora, S. R., Bognet, B., dan Ma, A. W. K. (2017). The Microstructure and Mechanical Properties of 3D Printed Carbon Nanotube-polylactic Acid Composites. *Polymer Composites*, 39(S2), E1060–E1071.
- Purba, E. F. (2017). Pengujian dan simulasi Finite Element Tekan Statis Tibial Insert Pada Knee Joint Prosthetic. Universitas Gadjah Mada.
- Qi, H. J., & Boyce, M. C. (2005). Stress-strain behavior of thermoplastic polyurethanes. *Mechanics of Materials*, 37(8), 817-839.
- Roylance, D. (2001). Finite Element Analysis. *Journal of Biomechanical Engineering*, Volume 133.
- Saalen, K. (2012). Validation of material model for polypropylene (PP), 1-6. Norwegian University of Science and Technology.
- Şerban, D. A., Maravina, L., dan Silberschmidt, V. (2012). Behaviour of Semi-

- crystalline Thermoplastic Polymers: Experimental Studies and Simulations. *Computational Materials Science*, 52(1), 139–146.
- Sheth, S. (2019). Material Characterization and Fracture Prediction of FDM Printed Parts, 9-14. University of Texas.
- Weaver, W, Jr., & Gere, J, M. (1990). Finite-Element Methode for Framed Structures. *Matrix Analysis of Framed Structures*: 447-467.
- William D. Callister, J., & Rethwisch, D. G. (2012). Fundamental of Material Science and Engineering -An Integrated Approach. *Orbit An International Journal On Orbital Disorders And Facial Reconstructive Surgery*.
- Xiao, J., & Gao, Y. (2017). The manufacture of 3D printing of medical grade TPU. *Progress on Additive Manufacturing*, 2(3), 117-123.