

## DAFTAR PUSTAKA

- [1] D. R. Askeland and W. J. Wright, *The Science and Engineering of Materials*, 7th ed. Boston: Cengage Learning, 2016.
- [2] Douglas D. Stokke, Qinglin Wu, and Guangping Han, *Introduction to Wood and Natural Fiber Composites*, 1st ed. New York: John Wiley & Sons, Ltd, 2014.
- [3] N. Saba, P. M. Tahir, and M. Jawaid, "A Review on Potentiality of Nano Filler/Natural Fiber Filled Polymer Hybrid Composites," *Polymers 2014*, Vol. 6, Pages 2247-2273, vol. 6, no. 8, pp. 2247–2273, Aug. 2014, doi: 10.3390/POLYM6082247.
- [4] O. Suparno, "POTENSI DAN MASA DEPAN SERAT ALAM INDONESIA SEBAGAI BAHAN BAKU ANEKA INDUSTRI," *Jurnal Teknologi Industri Pertanian*, vol. 30, no. 2, pp. 221–227, Aug. 2020, doi: 10.24961/J.TEK.IND.PERT.2020.30.2.221.
- [5] A. D. Dabet, F. Safriwardi, and A. Jannifar, "Rancang Bangun Alat Uji Tarik Serat Alam Untuk Mendukung Industri Nasional," *POROS*, vol. 16, no. 1, Nov. 2018, doi: 10.24912/poros.v16i1.6287.
- [6] S. v. Joshi, L. T. Drzal, A. K. Mohanty, and S. Arora, "Are natural fiber composites environmentally superior to glass fiber reinforced composites?," *Composites Part A: Applied Science and Manufacturing*, vol. 35, no. 3, pp. 371–376, Mar. 2004, doi: 10.1016/J.COMPOSITESA.2003.09.016.
- [7] M. Arsyad, J. Ritto, A. Rachman, D. R. A. Lestari, and E. Palembang, "Rancang Bangun Alat Uji Tarik Serat Alam," *Jurnal Teknik Mesin Sinergi*, vol. 17, no. 1, pp. 65–69, Dec. 2019, doi: 10.31963/SINERGI.V17I1.1594.
- [8] J. S. Dhaliwal, "Natural Fibers: Applications," *Generation, Development and Modifications of Natural Fibers*, Oct. 2019, doi: 10.5772/INTECHOPEN.86884.
- [9] M. E. Alves Fidelis, T. V. C. Pereira, O. D. F. M. Gomes, F. de Andrade Silva, and R. D. Toledo Filho, "The effect of fiber morphology on the tensile strength of natural fibers," *Journal of Materials Research and Technology*, vol. 2, no. 2, pp. 149–157, Apr. 2013, doi: 10.1016/J.JMRT.2013.02.003.



- [10] M. S. Smole, S. Hribernik, K. S. Kleinschek, and T. Kreže, “Plant Fibres for Textile and Technical Applications,” *Advances in Agrophysical Research*, Jul. 2013, doi: 10.5772/52372.
- [11] J. Comaro, I. Malik, and . K., “PERANCANGAN DAN PENGEMBANGAN ALAT UJI TARIK MINI BERBASIS ARDUINO UNTUK SPESIMEN NON-FERRO,” *MACHINERY: Jurnal Teknologi Terapan*, vol. 1, no. 1, pp. 55–61, Aug. 2020, doi: 10.5281/ZENODO.4540926.
- [12] “What Is the Price of a Universal Test Machine?” <https://www.testresources.net/blog/what-is-the-price-of-a-universal-test-machine/> (accessed Jun. 21, 2022).
- [13] “Operation, Capacity Versus Resolution, and Common Types of Load Cells.” Rice Lake Weighing Systems, Wisconsin, 2021.
- [14] E. Huerta, J. E. Corona, A. I. Oliva, F. Avilés, and J. González-Hernández, “Universal testing machine for mechanical properties of thin materials,” *Revista Mexicana de Física*, vol. 56, no. 4, p. 317, Jan. 2010, Accessed: Jan. 30, 2022. [Online]. Available: <https://rmf.smf.mx/ojs/index.php/rmf/article/view/3767>
- [15] W. Lim and H.-K. Kim, “Design and development of a miniaturised tensile testing machine,” *Global Journal of Engineering Education*, 2013.
- [16] B. D. Widodo and G. Santoso, “Rancang Bangun Mesin Uji Tarik Material Berbahan Kain (Fabrics),” *Seminar Nasional Mesin dan Industri (SNMI XI)*, 2017.
- [17] W. D. , Jr. , Callister and D. G. , Rethwisch, *Materials Science and Engineering: An Introduction*. New York: John Wiley & Sons, Inc., 2018.
- [18] B. J. Goodno and J. M. Gere, *Mechanics of Materials*, 9th ed. Boston: Cengage Learning, 2018.
- [19] M. Ashby, H. Shercliff, and D. Cebon, *Materials: Engineering, Science, Processing and Design*, 4th ed. Kidlington: Elsevier Ltd., 2019.
- [20] D. Roylance, *STRESS-STRAIN CURVES*. Cambridge: Massachusetts Institute of Technology, 2001.
- [21] J. R. Davis, Ed., “Introduction to Tensile Testing,” in *Tensile Testing*, 2nd ed., ASM International, 2004, pp. 1–12.
- [22] “5 Things to Know Before Buying Tensile Testing Grips - ADMET.” <https://www.admet.com/5-things-know-buying-tensile-testing-grips/> (accessed Jul. 21, 2022).



- [23] P. H. F. Pereira *et al.*, “Vegetal fibers in polymeric composites: a review,” *Polimeros*, vol. 25, no. 1, pp. 9–22, Jan. 2015, doi: 10.1590/0104-1428.1722.
- [24] M. K. Hossain *et al.*, “Comparative mechanical and thermal study of chemically treated and untreated single sugarcane fiber bundle,” *Industrial Crops and Products*, vol. 58, pp. 78–90, Jul. 2014, doi: 10.1016/J.INDCROP.2014.04.002.
- [25] M. M. Kabir, H. Wang, K. T. Lau, and F. Cardona, “Tensile properties of chemically treated hemp fibres as reinforcement for composites,” *Composites Part B: Engineering*, vol. 53, pp. 362–368, Oct. 2013, doi: 10.1016/J.COMPOSITESB.2013.05.048.
- [26] G. Vasconcelos, A. Camões, A. Martins, C. Jesus, R. Figueiro, and L. M. C. C. Silva, “EXPERIMENTAL CHARACTERIZATION OF GYPSUM-CORK COMPOSITE MATERIAL REINFORCED WITH TEXTILE FIBERS,” 2014.
- [27] F. Islam, S. Joannès, and L. Laiarinandrasana, “Evaluation of Critical Parameters in Tensile Strength Measurement of Single Fibres,” *Journal of Composites Science 2019, Vol. 3, Page 69*, vol. 3, no. 3, p. 69, Jul. 2019, doi: 10.3390/JCS3030069.
- [28] M. Y. Hashim, M. N. Roslan, O. M. F. Marwah, S. Mahzan, M. Zin, and S. Ariffin, “The effect of alkali treatment conditions on tensile strength of kenaf fiber,” *ARPJ Journal of Engineering and Applied Sciences*, vol. 11, pp. 8658–8662, Jul. 2016.
- [29] F. . Ramirez, A. Maldonado, J. F. Correal, and M. Estrada, “Bamboo-guadua angustifolia kunt fibers for green composites,” 2011.
- [30] D. C. Páez, A. Porras, and A. Maranon, “Pullout behaviour of Chambira fiber (Colombian natural fiber) embedded in Polylactic acid (PLA) matrix,” 2011.
- [31] ASTM, *ASTM C1557, Standard Test Method for Tensile Strength and Young’s Modulus of Fibers*. West Conshohocken: American Society for Testing and Materials, 2004.
- [32] R. S. Sedha, *Electronic Measurements and Instrumentation*, 1st ed. New Delhi: S. Chand & Company Pvt. Ltd., 2013.
- [33] T. R. Kuphaldt, *Electric Circuits I: Direct Current*. Open Education Resource (OER) LibreTexts Project, 2021.
- [34] F. A. Leckie and D. J. D. Bello, *Strength and Stiffness of Engineering Systems*. Springer Nature Switzerland AG, 2009.



- [35] “How to Select the Right Strain Gauge | HBM.” <https://www.hbm.com/en/7164/how-to-find-the-right-strain-gauge/> (accessed Apr. 03, 2022).
- [36] J. Fraden, *Handbook of Modern Sensors: Physics, Designs, and Applications*, 5th ed. San Diego: Springer, 2016.
- [37] Y. Wibisono, *Metode Statistik*, 3rd ed. Yogyakarta: Gadjah Mada University Press, 2015.
- [38] H. S. Kalsi, *Electronic Instrumentation*, 3rd ed. New Delhi: Tata McGraw Hill Education Private Limited, 2010.
- [39] M. H. Crosthwaite, “Percent Error or Coefficient of Variation (CV).” <http://www.people.vcu.edu/~mhcrosthwait/clrs322/Percent%20Error%20or%20Coefficient%20of%20Variation.htm> (accessed Apr. 09, 2022).
- [40] P. E. Christian and K. M. Waterstram-Rich, *Nuclear Medicine and PET/CT Technology and Techniques*, 7th ed. St. Louis: Elsevier Mosby, 2012.
- [41] *Load Cell Handbook: A Technical Overview and Selection Guide*. New York: PCB Piezotronics, Inc., 2014.
- [42] R.D.S.G. Campilho, *Natural Fiber Composites*. Boca Raton: Taylor & Francis Group, LLC.
- [43] *HX711 Datasheet*. Xiamen: AVIA SEMICONDUCTOR.
- [44] J. Whitefoot, *Lab 3: Use of Strain Gages to Determine the Strain in Cantilever Beams*. Pittsburgh: University of Pittsburgh.

