

DAFTAR PUSTAKA

- Altintas, Y., 2012, *Manufacturing automation: metal cutting mechanics, machine tool vibrations, and CNC design*, Cambridge university press.
- Anugerah M.A., (2021). Optimasi Parameter Mesin CNC Batik Menggunakan Metode Taguchi dan Pendekatan Expert Judgement pada Pembatikan dengan Motif Kontemporer. Skripsi, Departemen Teknik Mesin dan Industri Fakultas Teknik UGM, Yogyakarta. Available at: etd.repository.ugm.ac.id/.
- Asiltürk, I. and Neşeli, S., 2012, Multi response optimisation of CNC turning parameters via Taguchi method-based response surface analysis. *Measurement, Journal of the International Measurement Confederation*, **45**(4), 785–794. <https://doi.org/10.1016/j.measurement.2011.12.004>
- Bal, B. C., 2018, The effects of step over, feed rate and finish depth on the surface roughness of fiberboard processed with CNC machine, *Furniture and Wooden Material Research Journal*. **1**(2), 86-93
- Banoel, N. A., Wijaya, D. K., dan Talitha, T., 2021, Metode Taguchi Untuk Optimasi Proses Engraving CNC Router G- Weike WK1212 untuk Kayu Mahoni, *Jurnal Hasil Penelitian Dan Karya Ilmiah Dalam Bidang Teknik Industri*, **7**(2), 98–103.
- Bhagwat, K., Choutmal, S., and Digraskar, R., 2021, Process Parameters Optimization on CNC Engraving Machine by Using Response Surface Methodology (RSM), *International Journal of Research in Engineering and Science (IJRES)*, **9**(7), 28–34. www.ijres.org28%7C
- Chapdelaine, P. A. and Maxwell, S. A., 1993, Analysis of data. *Journal of Family Practice*, **36**(3), 325–359. https://doi.org/10.5005/jp/books/11588_6
- Csanády, E. and Magoss, E., 2013, *Mechanics of Wood Machining*. Springer-Berlin, Heidelberg. <https://doi.org/10.1007/978-3-030-51481-5>
- CNC Router Source, 2009, *Open vs. Closed Loop System*, <http://www.cncroutersource.com/closed-loop-system.html> (online accessed 20 January 2023)
- Davim, J. P., 2011, *Wood Machining*. ISTE Ltd., London https://doi.org/10.1007/978-3-642-87928-9_9
- Douglas C. Montgomery, 2020, *Design and Analysis of Experiments (10th ed.)*, John Wiley & Sons, Inc., New Jersey

- Ferry, J. D., 1980, *Viscoelastic Properties of Polymers (3rd edition)*, Wiley, New York
- Gavade, R. K., 2014, Multi-Criteria Decision Making: An overview of different selection problems and methods, *International Journal of Computer Science and Information Technologies*, **5**(4), 5643–5646. www.ijcsit.com
- Giri, V., Luthra, S., Singh, P. K., and Jayant, A., 2018, A state-of-the-art literature survey of grey relational analysis applications in competitive business environment. *International Journal of Industrial and Systems Engineering*, **30**(4), 425. <https://doi.org/10.1504/ijise.2018.10017322>
- GRZ Software, 2011, *How to Choose a Stepmover*, <https://www.grzsoftware.com/blog/choose-stepover/> (online accessed 15 September 2022)
- Haq, A. N., Marimuthu, P., and Jeyapaul, R., 2008, Multi response optimization of machining parameters of drilling Al/SiC metal matrix composite using grey relational analysis in the Taguchi method, *International Journal of Advanced Manufacturing Technology*, **37**(3–4), 250–255. <https://doi.org/10.1007/s00170-007-0981-4>
- Hazir, E., 2016, Optimization of wood surface machining parameters in CNC routers: Response surface methodology (RSM) approach, *International Journal of Scientific Research Engineering & Technology (IJSRET)*, **5**(10), 494–501.
- Hazir, E. and Koc, K. H., 2019, Optimization of wood machining parameters in CNC routers: Taguchi orthogonal array based simulated angling algorithm. *Maderas: Ciencia y Tecnologia*, **21**(4), 493–510. <https://doi.org/10.4067/s0718-221x2019005000406>
- Joshi, A. and Kothiyal, P., 2012, Investigating Effect of Machining Parameters of CNC Milling on Surface Finish by Taguchi Method, *Institute for Research and Development India*, **1**(2), 60–65.
- Julong, D., 1989, Introduction to grey system, *Journal of Grey System*, **1**(1), 1–24.
- Kalpakjian, S. and Schmid, S. R., 2016, *Manufacturing processes for engineering materials (6th edition)*, Pearson, Harlow
- Katadata, 2022, *Ekspor Furnitur Indonesia Capai Rp 28,6 Triliun, AS Pasar Terbesar*, [https://databoks.katadata.co.id/datapublish/2022/03/01/ekspor-furnitur-indonesia-capai-rp-286-triliun-as-pasar-terbesar#:~:text=Badan%20Pusat%20Statistik%20\(BPS\)%20melaporkan,sekitar%20Rp%202021%2C65%20triliun](https://databoks.katadata.co.id/datapublish/2022/03/01/ekspor-furnitur-indonesia-capai-rp-286-triliun-as-pasar-terbesar#:~:text=Badan%20Pusat%20Statistik%20(BPS)%20melaporkan,sekitar%20Rp%202021%2C65%20triliun) (online accessed: 13 September 2022)

- Khorasani, A. M., Yazdi, M. R. S., and Safizadeh, M. S., 2012, Analysis of machining parameters effects on surface roughness: a review, *International Journal of Computational Materials Science and Surface Engineering*, **5**(1), 68. <https://doi.org/10.1504/ijcmsse.2012.049055>
- Koc, K. H., Erdinler, E. S., Hazir, E., and Öztürk, E., 2017, Effect of CNC application parameters on wooden surface quality, *Measurement: Journal of the International Measurement Confederation*, **107**, 12–18. <https://doi.org/10.1016/j.measurement.2017.05.001>
- Krishnaiah, K. and Shahabudeen, P., 2012, *Applied Design of Experiments and Taguchi Methods*, PHI Learning Pvt. Ltd., New Delhi
- Lan, T. S. and Wang, M. Y., 2009, Competitive parameter optimization of multi-quality CNC turning, *International Journal of Advanced Manufacturing Technology*, **41**(7–8), 820–826. <https://doi.org/10.1007/s00170-008-1495-4>
- MachineMfg, 2023, *9 Reasons Affecting the Accuracy of CNC Machine Tools (Analysis and Solutions)*, <https://www.machinemfg.com/reasons-affecting-the-accuracy-of-cnc-machine-tools/> (Online accessed: 5 January 2023)
- Malkoçoğlu, A. and Özdemir, T., 2006, The machining properties of some hardwoods and softwoods naturally grown in Eastern Black Sea Region of Turkey. *Journal of Materials Processing Technology*, **173**(3), 315–320. <https://doi.org/10.1016/j.jmatprotec.2005.09.031>
- Magoss E., 2008, General Regularities of Wood Surface Roughness. *Acta Silv. Lign. Hung.*, **4**, 81–93.
- Meyer, M. A. and Booker, J. M., 1991, *Eliciting and Analyzing Expert Judgment: A Practical Guide*, Academic Press. <https://doi.org/10.1198/tech.2002.s716>
- Morlier, P., 1994, *Creep in timber structures: report of RILEM Technical Committee 112-TSC*, Spon, London
- Navi, P. and Stanzl-Tschegg, S., 2009, Micromechanics of creep and relaxation of wood. A review. COST Action E35 2004-2008: Wood machining - Micromechanics and fracture. *Holzforschung*, **63**(2), 186–195. <https://doi.org/10.1515/HF.2009.013>
- Palaniappan, S. P., Muthukumar, K., Sabariraj, R. V., Dinesh Kumar, S., and Sathish, T., 2020, CNC turning process parameters optimization on Aluminium 6082 alloy by using Taguchi and ANOVA, *Materials Today: Proceedings*, **21**, 1013–1021. <https://doi.org/10.1016/j.matpr.2019.10.053>

- Rashid, A. M. F. F. and Abdul Lani, M. R., 2010, Surface roughness prediction for CNC milling process using artificial neural network, *WCE 2010 - World Congress on Engineering 2010*, **3**, 2219–2224.
- Rastvorova, I. I. and Klyucherev, N. A., 2021, Design and modelling of a universal CNC machine, *Journal of Physics: Conference Series*, **1753**(1). <https://doi.org/10.1088/1742-6596/1753/1/012040>
- Rothrauff, B. B., Yang, G., and Tuan, R. S., 2015, *Tendon Resident Cells-Functions and Features in Section I-Developmental Biology and Physiology of Tendons. In Tendon Regeneration: Understanding Tissue Physiology and Development to Engineer Functional Substitutes*, Elsevier Inc., 41–76. <https://doi.org/10.1016/B978-0-12-801590-2.00002-8>
- Santhosh, A. J., Tura, A. D., Jiregna, I. T., Gemechu, W. F., Ashok, N., and Ponnusamy, M., 2021, Optimization of CNC turning parameters using face centred CCD approach in RSM and ANN-genetic algorithm for AISI 4340 alloy steel, *Results in Engineering*, **11**, 100251. <https://doi.org/10.1016/j.rineng.2021.100251>
- Semioshkina, N., & Voigt, G., 2006, An overview on Taguchi Method. *International Journal of Engineering and Mathematical Sciences*, **1**, 11–18. <https://www.ncbi.nlm.nih.gov/pubmed/19879888>
- Sitkei, G., Gyurácz, S., and Horváth, M., 1990, Theorie des Spanens von Holz. Fortschrittbericht No. 1. *Acta Fac. Ligniensis Sopron*.
- Stanojevic, D., Mandic, M., Danon, G., and Svrzic, S., 2017, Prediction of the surface roughness of wood for machining, *Journal of Forestry Research*, **28**(6), 1281–1283. <https://doi.org/10.1007/s11676-017-0401-z>
- Suzaki K., 1987, *The new manufacturing challenge: techniques for continuous improvement*, The Free Press, New York
- Sütçü, A., 2013, Investigation of parameters affecting surface roughness in CNC routing operation on wooden EGP. *BioResources*, **8**(1), 795–805. <https://doi.org/10.15376/biores.8.1.795-805>
- Taguchi, G., Chowdhury, S., and Wu, Y., 2005, *Taguchi's Quality Engineering Handbook*, John Wiley & Sons, Inc., New Jersey
- The Wood Database, 2016, Mahogany Mixups: the Lowdown | Available at: <https://www.wood-database.com/wood-articles/mahogany-mixups-the-lowdown/#:~:text=Mahogany%20is%20known%20for%20its,enough%20but%20not%20too%20hard.> (online accessed: 10 September 2022)

- Tung, T. T., Quynh, N. X. and Minh, T. V., 2021, Development and Implementation of a Mini CNC Milling Machine, *Acta Marisiensis. Seria Technologica*, **18**(2), 24–28. <https://doi.org/10.2478/amset-2021-0014>
- Tzeng, C. J., Lin, Y. H., Yang, Y. K., and Jeng, M. C., 2009, Optimization of turning operations with multiple performance characteristics using the Taguchi method and Grey relational analysis, *Journal of Materials Processing Technology*, **209**(6), 2753–2759. <https://doi.org/10.1016/j.jmatprotec.2008.06.046>
- Wibowo, L. A. dan Supriyati, H., 2021, Perancangan Mesin CNC Router Kayu Mini, *Seminar Nasional Teknologi Dan Riset Terapan*, 242–247
- Widyorini, R., Khotimah, K., and Prayitno, T. A., 2014, Pengaruh Suhu Dan Metode Perlakuan Panas Terhadap Sifat Fisika Dan Kualitas Finishing Kayu Mahoni Ragil, *Jurnal Ilmu Kehutanan*, **8**(2), 65–74
- Wijaya, D. K., Suprijono, H., and Nugroho, D. S., 2020, Optimasi Proses Cutting Mesin CNC Router G-Weike WK1212 dengan Metode Full Factorial Design dan Optimasi Plot Multi Respon, *Jurnal Penelitian dan Aplikasi Sistem & Teknik Industri (PASTI)*, **14**(1), 1–14. <https://doi.org/10.22441/pasti.2020.v14i1.001>
- Winters, R., Winters, A., and Amedee, R. G., 2010, Statistics: A Brief Overview. *The Ochsner Journal*, **10**(3), 213–216.
- Zhang, J. Z., Chen, J. C., and Kirby, E. D., 2007, Surface roughness optimization in an end-milling operation using the Taguchi design method, *Journal of Materials Processing Technology*, **184**(1–3), 233–239. <https://doi.org/10.1016/j.jmatprotec.2006.11.029>