DAFTAR PUSTAKA

Chen, X., Zhang, Y. and Liu, Z. (2022) 'Hot formability study of Cr5 alloy steel by integration of FEM and 3D processing maps', Materials, 15(14), p. 4801.

Galkin, A., Makarov, M. and Vlasov, M. (2024) 'The effect of increased strain per pass during hot-rolling of Cr–V–Mo and V–Mo microalloyed steels', Journal of Materials Science, 59(3), pp. 1231–1247.

Rakhmonov, J., Wei, D. and Schaper, M. (2013) 'A comparison of material models for the numerical simulation of spike-forging of a CrMoV alloy steel', Journal of Materials Processing Technology, 213(8), pp. 1353–1361.

Xu, L., Zhang, J. and Liu, W. (2017) 'Tempering stability of Fe–Cr–Mo–W–V hot forging die steels', Journal of University of Science and Technology Beijing, 24(3), pp. 219–226.

Zhou, Y., Chen, S. and Wang, L. (2025) 'Design and optimization of W–Mo–V high-speed steel roll material and its heat-treatment process parameters based on numerical simulation', Materials, 18(1), p. 34.

Altan, T., Ngaile, G. and Shen, G. (2005) *Cold and hot forging: Fundamentals and applications*. ASM International.

Bathe, K.J. (2006) *Finite element procedures*. Klaus-Jurgen Bathe.

Cook, R.D., Malkus, D.S., Plesha, M.E. and Witt, R.J. (2002) *Concepts and applications of finite element analysis* (4th ed.). Wiley.

Liu, G.R. and Quek, S.S. (2013) *The finite element method: A practical course*. Butterworth-Heinemann.

Logan, D.L. (2016) *A first course in the finite element method* (6th ed.). Cengage Learning.

Moaveni, S. (2020) *Finite element analysis: Theory and application with ANSYS* (4th ed.). Pearson.

Zhang, Y., Wang, H. and Li, X. (2020) 'Influence of billet dimensions on deformation behavior and stress distribution in hot rolling processes', *Journal of Materials Processing Technology*, 279, p. 116561. doi:10.1016/j.jmatprotec.2020.116561.

Zienkiewicz, O.C., Taylor, R.L. and Zhu, J.Z. (2005) *The finite element method: Its basis and fundamentals* (6th ed.). Elsevier Butterworth-Heinemann.

Alam, M., Khan, M.A. and Chowdhury, A.H. (2018) 'Stress Analysis and Safety Factor Estimation in Mechanical Structures Using Finite Element Method', *International Journal of Engineering Research and Technology*, 7(9), pp. 1–7.

ANSYS (2020) *ANSYS Theory Reference*. ANSYS Inc.

Fan, J., Zhang, W. and Liu, Y. (2019) 'Finite Element Analysis of Multiaxial Stress Conditions and Hertzian Contact in Mechanical Design', *Journal of Mechanical Science and Technology*, 33(7), pp. 3105–3114.

Kim, S. and Park, J. (2020) 'Elastic-Plastic Deformation and Structural Integrity Assessment Under Tensile Load', *Materials Science and Engineering A*, 784, p. 139323.

Liu, Z., Wang, H. and Chen, X. (2019) 'Stress Distribution and Material Failure Analysis Using FEM Tools', *Materials Today: Proceedings*, 18, pp. 1135–1142.

Zhao, Q. *et al.* (2015) 'Simulation and experimental validation of powertrain mounting bracket design obtained from multi-objective topology optimization', *Advances in Mechanical Engineering*, 7(6), pp. 1–10. doi:10.1177/1687814015591317.

ANSYS Inc. (2020). ANSYS Explicit Dynamics Product Overview. Retrieved from https://www.ansys.com/content/dam/product/structures/ansys-explicit-dynamics-brochure-140.pdf

Johnson, G. R., & Cook, W. H. (1983). A constitutive model and data for metals subjected to large strains, high strain rates and high temperatures. Proceedings of the 7th International Symposium on Ballistics, 541–547.

Johnson, K. L. (1985). *Contact Mechanics*. Cambridge: Cambridge University Press.

ANSYS Inc. (2025). *ANSYS Motion Solver – Contact Theory*. ANSYS Help Documentation, Release 2025 R1.

Grüning, A., Lebsanft, M., & Scholtes, B. (2010). Isothermal and Thermal Fatigue of Tool Steel AISI H11. Materials Science Forum, 638-642, 3230–3235.

Zivkovic, M., et al. (2022). A Comparison Study of Fatigue Behavior of S355J2 +N, S690QL and X37CrMoV5-1 Steel. Metals, 12(7), 1199.