

## DAFTAR PUSTAKA

- [1] Ackland, G. J., & Jones, A. P. (2006). Applications of local crystal structure measures in experiment and simulation. *Physical Review B*, 73(5), 054104. <https://doi.org/10.1103/PhysRevB.73.054104>
- [2] Adcock, S. A., & McCammon, J. A. (2006). Molecular dynamics: Survey of methods for simulating the activity of proteins. *Chemical Reviews*, 106(5), 1589–1615. <https://doi.org/10.1021/cr040426m>
- [3] Allen, M. P. (2004). Introduction to Molecular Dynamics Simulation. *Computational Soft Matter: From Synthetic Polymers to Proteins*, 23, 1–28. <https://doi.org/10.1016/j.cplett.2006.06.020>
- [4] Andika Wisnujati, Chirtian Sepriansyah, (2018). Analisis Sifat Fisik Dan Mekanik Paduan Aluminium Dengan Variabel Suhu Cetakan Logam (*Dies*) 450 Dan 500 Derajat Celcius Untuk Manufaktur Poros Berulir (*Screw*). Yogyakarta : Jurnal Ilmiah, D3 Teknik Mesin Universitas Muhammadiyah Yogyakarta
- [5] Brown, J.R. (1999)., *Non-Ferrous Foundryman's Handbook*, Butterworth Heinemann, Eleventh Edition, Oxford, page : 82-83
- [6] Calderon, H.A., Garibay-Febles, V., Cabrera, A., Cabanas-Moreno, J.G. and Umemoto, M. (2001). Mechanical Properties of Nanocrystalline TiAl-X and TiAl<sub>3</sub>-X Prepared by Mechanical Alloying and Sintering. *Materials Science Forum* 360-362: 229 – 234
- [7] Daw, M.S. and Baskes, M.I. (1984) Embedded-Atom Method: Derivation and Application to Impurities, Surfaces, and Other Defects in Metals. *Physical Review B*, 29, 6443-6453. <https://doi.org/10.1103/PhysRevB.29.6443>
- [8] Hanwell, M. D., Curtis, D. E., Lonie, D. C., Vandermeersch, T., Zurek, E., & Hutchison, G. R. (2012). Avogadro: an advanced semantic chemical editor, visualization, and analysis platform. *Journal of Cheminformatics*, 4(1), 17. <https://doi.org/10.1186/1758-2946-4-17>

- [9] Hiraga, K., Ohsuna, T., & Sugiyama, K. (1999). Contributed Papers Atom Clusters With Icosahedral Symmetry in Cubic Alloy Phases Related To Icosahedral Quasicrystals, *I6*(1)
- [10] Hook, J. R., & Hall, H. E. (2010). *Solid State Physics. Manchester Physics Series* (2nd ed.). John Wiley & Sons
- [11] Humphrey, W., Dalke, A., & Schulten, K. (1996). VMD: Visual molecular dynamics. *Journal of Molecular Graphics*, 14(1), 33–38  
[https://doi.org/10.1016/0263-7855\(96\)00018-5](https://doi.org/10.1016/0263-7855(96)00018-5)
- [12] <http://www.scribd.com/doc/50849094/BAB-2>
- [13] [http://belajarmetalurgi.blogspot.com/2011/02/pendahuluan - dalam - kehidupan-sehari-hari.html](http://belajarmetalurgi.blogspot.com/2011/02/pendahuluan-dalam-kehidupan-sehari-hari.html)
- [14] <http://www.fhianunikoe.blogspot.com>
- [15] J. C. F. Millet and N. K. Bourne, (2001). *Journal American Institute of Physics*
- [16] Lauer, St., Guan, Z., Wolf, H. and Wichert, (2002). Investigation of mechanical alloying of Ti–Al compounds using perturbed  $\gamma\gamma$ -angular correlation spectroscopy, x-ray diffraction, and differential scanning calorimetry. *J. Mater. Res.* 17(8): 2130 – 2139
- [17] Le Roux, S., & Jund, P. (2010). Ring statistics analysis of topological networks: New approach and application to amorphous GeS<sub>2</sub> and SiO<sub>2</sub> systems. *Computational Materials Science*, 49(1), 70–83.  
<https://doi.org/10.1016/j.commatsci.2010.04.023>
- [18] Li, X., Hui, D., Xuefong, R. and Yaoyao, R. (2007). Microstructures of mechanically activated Ti-46at. % Al powders and spark plasma sintered ultrafine TiAl alloy. *Rare Metals* 26(6): 572 – 577
- [19] Mayer, D. (2007). File:Cubic.svg - Wikimedia Commons. Retrieved May 18, 2019, from <https://commons.wikimedia.org/wiki/File:Cubic.svg>

- [20]M.N. Habibiy, H. Purwanto, S.M.B. Respati, (2014), Analisa Pengaruh Penambahan Titanium (Ti) Terhadap Struktur Mikro Dan Kekerasan Pada Produksi Sepatu Kampas Rem Daur Ulang Berbahan Aluminium (Al) Silikon (Si) Dengan Metode Pengecoran Squeeze. Semarang: Jurnal Ilmiah, Jurusan Teknik Mesin, Fakultas Teknik, Universitas Wahid Hasyim
- [21]Plimpton, S. (1995). Fast Parallel Algorithms for Short-Range Molecular Dynamics. *Journal of Computational Physics* (Vol. 117). Retrieved from <http://www.cs.sandia.gov/sjplimp/main.html>
- [22]Purnomo, (2004). Pengaruh Pengecoran Ulang Terhadap Kekuatan Tarik Dan Ketangguhan Impak Pada Paduan Aluminium Tuang 320. *Proceedings. Komputer dan Sistem Intelijen Universitas Gunadarma Jakarta*
- [23]R. T Fortnum, and D. E. Mikkola, (1986). *Light Alloy-Metallurgy of Light Metals*, Departement of Metalurgical Engineering, Michigan Technological University
- [24]Raharsetyadi H.D. (2003). Sintesis Paduan TiAl Fasa-Gamma Dengan Metoda Peleburan Dan Metalurgi Serbuk Serta Karakterisasinya
- [25]Saitoh, K., Kubota, K., & Sato, T. (2010). Atomic-level structural change in Ni-Ti alloys under martensite and amorphous transformations. *Technische Mechanik*, 269–279. Retrieved from [http://www.uni-magdeburg.de/ifme/zeitschrift\\_tm/2010\\_Heft1\\_3/23\\_Saitoh.html](http://www.uni-magdeburg.de/ifme/zeitschrift_tm/2010_Heft1_3/23_Saitoh.html)
- [26]Shimono, M., Tsuchiya, K., & Onodera, H. (2013). Molecular Dynamics Study on Amorphization of TiNi by Severe Plastic Deformation. *Materials Transactions*, 54(9), 1575–1579  
<https://doi.org/10.2320/matertrans.MH201311>
- [27]Stukowski, A. (2010). Visualization and analysis of atomistic simulation data with OVITO-the Open Visualization Tool. *Modelling and Simulation in Materials Science and Engineering*, 18(1). <https://doi.org/10.1088/0965-0393/18/1/015012>
- [28]Sulistioso G. S., Wagiyo H. dan Ari Handayani, (2007), Analisis Fasa Dan

Korosi Suhu Tinggi Paduan TiAl Hasil Metalurgi Serbuk. Tangerang: Jurnal Ilmiah, Pusat Teknologi Bahan Industri Nuklir (PTBIN) - BATAN

- [29]Thaddeus B. Massalski, (1990). Metal Handbook, Binary Alloy Phase Diagrams 2nd Edition, ASM International, The Materials Information Society
- [30]Uehara, T. (2010). Molecular Dynamics Simulation of Shape-memory Behavior, Shape Memory Alloys. (C. Cismasiu, Ed.). InTech. Retrieved from <http://www.intechopen.com/books/shape-memory-alloys/molecular-dynamics-simulation-of-shape-memory-behavior>
- [31]W. Maziarz, A. Michalski, P. Kurtyka And J. Dutkiewicz, (2004). Review Advance Material Science, 8 (158-163)
- [32]Widharto S. (2001). Karat dan Pencegahannya, Cetakan Kedua, PT Pradnya Paramita, Jakarta
- [33]Xiaoying Zhu et al. (2006). Oxidation of Mechanically Allied Al-rich Al-Ti Powder. Oxidation of metals 65: 357 – 376
- [34]Zhou, X. W., Johnson, R. A., & Wadley, H. N. G. (2004). Misfit-energy-increasing dislocations in vapor-deposited CoFe/NiFe multilayers. *Physical Review B - Condensed Matter and Materials Physics*, 69(14), 1–10. <https://doi.org/10.1103/PhysRevB.69.144113>