

## DAFTAR PUSTAKA

- Abdizadeh, H., Baharvandi, H. R., & Shirvani Moghaddam, K. (2008). *Comparing the effect of processing suhu on microstructure and mechanical behavior of (ZrSiO<sub>4</sub> or TiB<sub>2</sub>)/aluminum composites*. *Materials Science and Engineering: A*, 498(1-2), 53–58.
- Ahmad, F., Lo, J. S. H., & Yusoff, P. S. M. M. (2013). *Tribology behaviour of alumina particles reinforced aluminium matrix composites and brake disk materials [Master's thesis, Universiti Teknologi PETRONAS]*.
- Ananth, C., & Chandra, N. (1996). *Elevated suhu interfacial behaviour of MMCs: A computational study*. *Composites Part A: Applied Science and Manufacturing*, 27(10), 805–811.
- Ananthapadmanabhan, P. V., Sreekumar, K. P., Venkatramani, N., & Iyer, K. V. (1994). *Influence of some process variables on plasma dissociation of zircon*. *Materials Chemistry and Physics*, 38(1), 15–20.
- Ansary Yar, A., Montazerian, M., Abdizadeh, H., & Baharvandi, H. R. (2009). *Microstructure and mechanical properties of aluminum alloy matrix composite reinforced with nano-particle MgO*. *Journal of Alloys and Compounds*, 484(1-2), 400–404.
- Azis, F., Sunardi, S., & Pramono, A. (2012). *Analisa pengaruh kompresibilitas metalurgi serbuk terhadap karakteristik fisik pada komposit matriks logam aluminium berpenguat alumina*. Dalam *Prosiding Seminar Nasional Energi, Manufaktur, dan Perancangan Teknik Mesin* (hlm. 100–103). Teknik Mesin Universitas Sultan Ageng Tirtayasa.
- Beard, D. C., & Weyl, P. K. (1973). *Influence of texture on porosity and permeability of unconsolidated sand*. *AAPG Bulletin*, 57(2), 349–369.
- Birkeland, P. W. (1984). *Soils and geomorphology (2nd ed.)*. Oxford University Press.
- Callister, W. D. (2003). *Materials science and engineering: An introduction*. John Wiley and Sons.
- Corradi, A. B., Leonelli, C., Manfredini, T., & Siligardi, C. (1993). *Effect of forming pressure on the reactivity and microstructure of zircon powder compacts*. *Journal of Materials Science Letters*, 12(18), 1434–1436.
- Ejiofor, J. U., Okorie, B. A., & Reddy, R. G. (1997). *Powder processing and properties of zircon-reinforced Al-13.5Si-2.5Mg alloy composite*. *Journal of Materials Engineering and Performance*, 6(3), 326–334.

- Farias da Silva, R. J., Bourdot Dutra, A. J., & Afonso, J. C. (2012). *Alkali fusion followed by a two-step leaching of a Brazilian zircon concentrate. International Journal of Mineral Processing*, 117–118, 93–100.
- German, R. M. (1984). *Powder metallurgy science*. Metal Powder Industries Federation.
- German, R. M., Hens, K. F., & Johnson, J. L. (1994). *Powder metallurgy processing of thermal management materials for microelectronic applications. International Journal of Powder metallurgy*, 30(2), 205–215.
- Gibson, R. F. (1994). *Principles of composite material mechanics*. McGraw-Hill.
- Glover, P. W. J. (2000). *Petrophysics*, University of Aberdeen.
- Greenwood, N. N., & Earnshaw, A. (1984). *Chemistry of the elements*. Pergamon Press.
- Hartono, A. J. (1992). Mengenal keramik canggih cerdas dan biokeramik.
- Hashim, J., Looney, L., & Hashmi, M. S. J. (1999). *Metal matrix composites: Production by the stir casting method. Journal of Materials Processing Technology*, 92–93, 1–7.
- Hull, D. (1981). *An introduction to composite materials (2nd ed.)*. Cambridge University Press.
- Januardi Barrier Atsani, J., Pawawoi, & Prajitno, D. H. (2018). *Pengaruh suhu sinter terhadap kekerasan dan struktur mikro paduan quaternary Fe–18Al–5Cr–5Mn yang didoping ZrO<sub>2</sub> hasil paduan mekanik*. Fakultas Teknik, Universitas Jenderal Achmad Yani; Pusat Penelitian Badan Tenaga Nuklir Indonesia.
- Juniadi, H. (2003). Pengaruh volume fraksi terhadap karakteristik metal matrix composite Al 6063-Al<sub>2</sub>O<sub>3</sub> hasil proses casting. *Jurnal Universitas Merdeka Malang*.
- Kabir, R. B., & Ferdous, N. (2012). *Kevlar—The super tough fiber. International Journal of Textile Science*, 1(5), 78–83.
- Kaczmar, J. W., Pietrzak, K., & Włosiński, W. (2000). *The production and application of metal matrix composite materials. Journal of Materials Processing Technology*, 106(1-3), 58–67.
- Lyne, T. W. (2001). *Metal matrix composites: Matrices and processing*. Dalam A. Mortensen (Ed.), *Encyclopedia of materials: Science and technology* (hlm. 1–14). Elsevier.
- Mehta, P. K. (1986). *Concrete: Structure, properties and materials*. Prentice-Hall.

- Miserez, A., & Mortensen, A. (2004). *Fracture of aluminium reinforced with densely packed ceramic particles: Influence of matrix hardening*. *Acta Materialia*, 52(18), 5331–5345.
- Murtiono, A. (2012). Pengaruh quenching dan tempering terhadap kekerasan dan kekuatan tarik serta struktur mikro baja karbon sedang untuk mata pisau pemanen sawit. *Jurnal e-Dinamis*, 2(2).
- Nagavally, R. R. (2017). *Composite materials-history, types, fabrication techniques, advantages, and applications*. *International Journal of Mechanical and Production Engineering*, 5(6), 82–87.
- Olakanmi, E. O., Cochrane, R. F., & Dalgarno, K. W. (2015). *A review on selective laser sintering/melting (SLS/SLM) of aluminium alloy powders: Processing, microstructure and properties*. *Progress in Materials Science*, 74, 401–477.
- Park, S. H. (1996). *Robust design and analysis for quality engineering*. Chapman & Hall.
- Prasetyo, M. A. (2004). Karakteristik aluminium hasil proses metalurgi serbuk.
- Purwanto, H. (2011). Analisa quenching pada baja karbon rendah dengan media. *Jurnal Teknik Mesin*, 7(1), 36–40.
- Sadi, S., Darmawan, A., & Prasetyo, H. (2014). Analisis pengaruh kandungan SiC suhu cairan, kecepatan putar dan durasi pengadukan pada kekuatan tarik komposit Al-SiC. *Rotasi*, 16(1), 7–13.
- Safri, S. N. A., Sultan, M. T. H., Jawaidd, M., & Jayakrishna, K. (2018). *Impact behaviour of hybrid composites for structural applications: A review*. *Composites Part B: Engineering*, 133, 112–121.
- Salih, O. S., Ou, H., Sun, W., & McCartney, D. G. (2015). *A review of friction stir welding of aluminium matrix composites*. *Materials & Design*, 86, 61–71.
- Schön, J. H. (1998). *Pore space properties: Porosity, specific internal surface, and permeability*. Dalam *Handbook of geophysical exploration: Seismic exploration* (Vol. 18, hlm. 23–58). Pergamon.
- Schwartz, M. M. (1984). *Composite materials handbook*. McGraw-Hill.
- Setiyanto, I. (2009). Pengaruh variasi suhu sintering terhadap ketahanan aus bahan rem sepatu gesek, Universitas Muhammadiyah Surakarta.
- Shyha, I., & Huo, D. (Eds.). (2021). *Advances in machining of composite materials*. Springer.
- Sivakandhan, C., Loganathan, G. B., & et al. (2020). *Material characterization and unconventional machining on synthesized Niobium metal matrix*. *Materials Research Express*, 7(1), 015018.

- Slipenyuk, A., Kuprin, V., Milman, Y., Goncharuk, V., & Eckert, J. (2006). *Properties of P/M processed particle reinforced metal matrix composites specified by reinforcement concentration and matrix-to-reinforcement particle size ratio. Acta Materialia*, 54(1), 157–166.
- Soejanto, I. (2009). Desain eksperimen dengan metode Taguchi. Graha Ilmu.
- Suwanda, T. (2006). Optimalisasi tekanan kompaksi, suhu dan durasi sintering terhadap kekerasan dan berat jenis aluminium pada proses pencetakan dengan metalurgi serbuk. *Jurnal Ilmiah Semesta Teknik*, 9(2), 187–198.
- Suyanto. (2007). Pengaruh durasi sintering terhadap sifat fisik dan mekanik komposit plastik. Skripsi, Universitas Sebelas Maret.
- ThoughtCo. (2018). *History of composites*. Diakses dari <https://www.thoughtco.com/history-of-composites-820404>
- Totten, G. E., & MacKenzie, D. S. (Eds.). (2003). *Handbook of aluminum: Vol. 1. Physical metallurgy and processes*. Marcel Dekker.
- Van Vlack, L. H. (1985). *Elements of material science and engineering*. Erlangga.
- Wahyudin, I. (2010). Pengaruh perlakuan panas daerah eutektik terhadap struktur mikro dan sifat mekanik pada paduan aluminium 2024 yang terlelehkan.
- Wuryandari, T., Santoso, B., & Prasetyo, A. (2009). Metode Taguchi untuk optimalisasi produk pada rancangan faktorial. *Jurnal Sains dan Matematika*, 2(2).
- Julinawati, Marlina, Nasution, R., & Sheilatina. (2015). *Applying SEM–EDX techniques to identifying the types of mineral of jades (giok) Takengon, Aceh. Jurnal Natural*, 15(2), 85–90.
- Sudradjat, A., & Bayuseno, A. P. (2013). Analisis korosi dan kerak pipa nickel alloy N06025 pada *waste heat boiler*. *Jurnal Teknik Mesin*, 1(4), 40–45.
- Yurugi, T., Ito, S., Numata, Y., & Sykes, K. (2001). *SEM/EDX-integrated analysis system (SEM-EDX series)*. Hitachi Science Systems, Ltd.; Oxford Instruments plc.