

REFERENCES

- A.M. Samuel and F.H. Samuel (1995). *Key Engineering Material.* **65**. 104 – 107..
- Abd El-Azim A.N., Kassem M.A., El- Baradie Z.M., Waly M (2002). Structure and properties of short alumina fibre reinforced AlSi18CuNi produced by stir casting. *Material.* **56**, 963 - 969.
- American Society for Testing and Materials (2000). *Standard Test Method for Vickers Hardness of Metallic Materials.* West Conshohocken: (ASTM E92-82 Reapproved 1997)^{e3}
- Ani Idris and Jasmi Hashim (1997). *Pengenalan Kepada Bahan Kejuruteraan*, 3rd ed. Skudai, Johor: Penerbit Universiti Teknologi Malaysia, 220 – 504.
- Ashby M. F. (1997). *Material Selection in Mechanical Design.* Great Britain: Butterworth-Heinemann, 14 - 15.
- ASM (1995). “ASM Handbook, Properties and Selections: Irons, Steels and High Performance Alloy, Volume 1.” USA: ASM International.
- Bendell, A. (1988). Introduction to Taguchi Methodology. *Taguchi Methods: Proceedings of the 1988 European Conference:* , Elsevier Applied Science, London.
- Bimdumadhavan, P.N, Heng, Keng Wah and Prabhakar, O. (2001). Dual Particle Size (DPS) Composites: Effect on Wear and Mechanical Properties of Particulate Metal Matrix Composites. *Wear.* **248**. 112-120.

Blau, P.J. (2001). Composition, Functions and Testing of Friction Brake Materials and Their Additives. Oak Ridge: Not Published.

British Standards Institution (1988). *Aluminium Casting Alloy LM6*. London: (BS 1490:1988LM6)

Bruce R. Munson, Donald F Young and Theodore H. Okiishi (2002). *Fundamentals of Fluid Mechanics*, 4th ed. New York: John Wiley & Sons, Inc., 331 – 333.

C.H. Gao, X.Z. Lin (2002). Transient temperature field analysis of a brake in non - axisymmetric three-dimensional model. **129**. 513 - 517.

Casting For Industry, (2001). *What Are Casting*. Casting For Industry Homepage, <http://www.castingsforindustry.com/what-are-castings.html>

Chawla, K.K. (1993). Metal Matrix Composites. *Materials Science and Technology Volume 13*. New York: VCH.

Cho M.H., Kim S.J., Basch R.H., Fash J.W., Jang H. (2003). Tribological study of grey cast iron with automotive brake linings: The effect of rotor microstructure. *Tribology International*. **36**. 537 - 545.

Clyne, T.W. and Withers, P.J. (1993). *An Introduction to Metal Matrix Composites*. Cambridge: Cambridge University Press.

Cooke PS, Werner PS (1991). Pressure infiltration casting of metal matrix composites. *Material Science Engineering A* **144**. 189 – 193.

Cueva G., Sinatorta A., Guesser W.L., Tschiptschin A.P. (2003). Wear resistance of cast irons in brake disc rotors. *Wear*.

Doel TJA and Bowen P. (1996). Tensile properties of particulate reinforced metal matrix composites. *Composites, Part A*. **27A**. 655– 65.

Douglas C. Montgomery (2001). *Design and Analysis of Experiments*, 5thed. New York: John Wiley & Sons, Inc., 11 - 20.

Eriksson M., Bergman F., Jacobson S. (2002). On the nature of tribological contact in automotive brakes. *Wear*. **252**. 26 - 36.

Eriksson M., Jacobson S. (2000). Tribological surfaces of organic brake pads. *Tribology International*. **33**. 817 - 827.

Fareed bin Hamis (2003). *Casting of Aluminium Alloy Based Metal Matrix Composites for Automotive Brake Rotor*. University of Malaya: Bachelor degree Thesis.

Feller, W.O (1990). “Materials Science, Testing and Properties for Technicians.” London: Prentice Hall, International. 60-74

Ganguly,P. and Poole, W.J. (2001). Characterization of reinforcement distribution inhomogeneity in MMCs. *Material Science and Engineering*. **A332** (2002). 301-310.

Gao C.H., Lin X.Z. (2002). Transient temperature field analysis of a brake in non-axisymmetric three-dimensional model. *Journal of Material Processing Technology*. **129**, 513 - 517.

Garcia-Cordovilla, C, Narciso, J and Louis, E. (1996). Abrasive Wear Resistance of Aluminium Alloy/Ceramic Particulate Composites. *Wear*. **192**.170-177.

Gnjidic, Z., Bozic, D. and Mitkov, M. (2001). The Influence of SiC Particles on the Mechanical Properties of Metal Matrix Composites. *Material Characterization*. **47**. 129-138.

Ghosh, P.K., Ray, S. (1984). Trans, *Japan Institute of Material*. **25**. 440.

Grimes, J.L (1999). "Design of a Thermal Compensating Adjuster for Drum Brake." Marquette University: Master Thesis.

Groover M.P. (2002). *Fundamentals of Modern Manufacturing*, 2nd ed. New York: John Wiley & Sons, Inc., 39 - 50.

Gur, C.H. (2003). "Investigation of Microstructure-Ultraconic Velocity Relationship in SiC_p – Reinforced Aluminium Metal Matrix Composites." *Material Science & Engineering*. A361. 29-35.

Hameedullah.M, Azlis Sani and Malaque.A. (2004). Preliminary Investigations on Aluminium Based Metal Matrix Composites Reinforced With Ceramic Particulates. *AUN/SEED-Net 3rd Field Wise Seminar on Manufacturing and Material Processing Technology*. 59-72.

H.Snelson Engineers, (2001). *Properties of Aluminium*, H.SNELSON ENG. LTD Homepage, <http://www.snelsons.co.uk/index.html>

Hajri, M.A (2003). *Understanding the Mechanical Behavior of Particulate Reinforced Metal Matrix Composites*. University of Akron: Ph.D Thesis.

Heller, W. (1993). Copper Based Alloy in. Matucha, K.H. *Material Science and Technology, Structure and Properties of Nonferrous Alloys*. New York:VCH. 277-346.

Hong S.J, Kim H.M, Huh Dae, Suryanarayana C., Chun B.S. (2003). Effect of clustering on the mechanical properties of SiC particulate-reinforced aluminium alloy 2024 metal matrix composite. *Materials Science and Engineering*. A347, 198 - 204.

HowStuffWorks,Inc.(2000). *How Drum Brakes Work*, <http://www.howstuffworks.com/>

J. Hashim, L. Looney and M.S.J. Hashmi (2002). Particle distribution in cast metal matrix composites—Part I. *Journal of Materials Processing Technology* **123**. 251–257

Jamaliah Idris, *et.al.* (2003). Kajian Sifat Kehausan Dan Kekerasan Komposit Matriks Aluminium. *Jurnal Teknologi*. **38A**. 11-24.

Jananee Sivanason (2004). *Chacteristics of Aluminium Based Metal Matrix Composite with Ceramic Particulate, Stir Cast in Sand Mould*. University of Malaya: Bachelor Degree Thesis.

Jasmi Hashim (2003). *Komposit Matriks Logam*. Skudai, Johor: Penerbit Universiti Teknologi Malaysia, 31 - 45.

Jasmi Hashim, Looney, L. and Hasmi, M.S.J. (1999). "Metal Matrix Composites: Production by Stir Casting Method." *Materials Processing Technology*. **92-93**. 1-7.

Juran, J.M. and Godfrey, A.B.(1998). *Juran's Quality Handbook*, 5th ed. New York: McGraw-Hill.

K.H.W Seah, J. Hemanth and S.C. Sharma. (2003) *Mechanical properties of aluminium/quartz particulate composites cast using metallic and non-metallic chills*, **24** 87 - 7.

Kackar, Raghu (1985). Off-Line Quality Control, Parameter Design, and the Taguchi Method. *Journal of Quality Technology*. **Vol. 17, No.4**.176-188.

M. F. Ashby (1997). *Material Selection in Mechanical Design*. Great Britain: BPC Wheatons, 14 - 15.

M.H. Cho, S.J. Kim, R.H. Basch, J.W. Fash, H. Jang (2003). Tribological study of grey cast iron with automotive brake linings: The effect of rotor microstructure, **36**. 537 - 545.

Majumdar BS, Yegneswaran AH and Rohatgy PK (1984). Strength and fracture behavior of metal matrix particulate composite. *Material Science Engineering*. **68**. 85– 93.

MatWeb (2005). *Matweb Material Properties Data- Gray Cast Iron*,
<http://www.matweb.com/search/GetProperty.asp>

Mikael Eriksson, Filip Bergman, Staffan Jacobson (2002). On the nature of tribological contact in automotive brakes, **252**. 26 - 36.

Mike & Vidi Van Voorhis, (1998). *Physical Properties of Materials*, Mike & Vidi Van Voorhis Homepage,
<http://ourworld.compuserve.com/homepages/MJVanVoorhis/T004.htm>

Mikell P. Groover (2002). *Fundamentals of Modern Manufacturing*, 2nd ed. New York:
John Wiley & Sons, Inc., 39 - 50.

Miracle, D.B. (2001). Metal Matrix Composites for Space Systems: Current Uses and Future Opportunities. TMS: 1-27

Miyajima, T. and Iwai, Y. (2003). Effects of Reinforcements on Sliding Wear Behavior of Aluminium Matrix Composites. *Wear*. 1-11

MMC-Assess (2000). *Assessment of Metal Matrix Composites for Innovations*, <http://mmc-assess.tuwien.ac.at/index1.htm>

Montgomery D.C. (2001). *Design and Analysis of Experiments*, 5th ed. New York: John Wiley & Sons, Inc., 11 - 20.

Mortensen A, Michaud VJ, Flemings MC (1993). Pressure infiltration processing of reinforced aluminum. *Journal of Metallurgy*. **45(1)**.36 –43.

Munson B.R., Young D.F and Okiishi T.H. (2002). *Fundamentals of Fluid Mechanics*, 4th ed. New York: John Wiley & Sons, Inc., 331 – 333.

P.N. Bindumadhavan, T.K. Chia, M. Chandrasekaran, Heng Keng Wah, Loh Nee Lam and O. Prabhakar (2001). Effect of particle-porosity clusters on tribological behavior of cast aluminum alloy A356 SiC_p metal matrix composites. *Material Science and Engineering*. **A315**, 217 – 226 .

Phadke, S. M., (1989). *Quality Engineering Using Robust Design*, Prentice Hall, Englewood Cliffs. N.J.

Purohit R. and Sagar R. (2001). Fabrication of cam using metal matrix composites. *Advanced Manufacturing Technology*. **17**, 644 - 648.

Roberts S.M., Kusiak J., Liu Y.L., Forcellese A., Withers P.J. (1998). Prediction of damage evolution in forged aluminium metal matrix composites using a neural network approach. *Journal of Material Processing Technology*. 80-81, 507-512.

S.M. Roberts, J. Kusiak, Y.L. Liu, A. Forcellese, P.J. Withers, Prediction of damage evolution in forged aluminium metal matrix composites using a neural network approach, 80-81 (1998) 507-512.

Sahin, Y. (2003). Preparation and Some Properties of SiC particle reinforced Aluminium Alloy Composites. *Materials & Design*. **24**. 671-679.

Sahin, Y. and Acilar, M. (2003). Production and Properties of SiC_p-reinforced Aluminium Alloy Composites. *Composites*. **A34**. 709-718.

Schwartz, M.M. (1997). *Composite Materials Processing, Fabrication and Application*. New Jersey: Prentice Hall. 442.

Schwetz, K.A. (2000). *Silicon Carbide Hard Material.* " in Riedel, R. "Handbook of Ceramic Hard Materials. Singapore: Wiley-VCH. 720.

Seah K.H.W, Hemanth J., Sharma S.C. (2003). Mechanical properties of aluminium/quartz particulate composites cast using metallic and non-metallic chills. *Material and Design*. **24**, 87 - 7.

Shorowordi K.M., Laoui T., Haseeb A.S.M.A., Celis J.P., Froyen L. (2003). Microstructure and interface characteristics of B₄C, SiC and Al₂O₃ reinforced Al matrix composites : a comparative study. *Journal of Material Processing Technology*.

Skolianos, S. (1996). Mechanical Behavior of Cast SiC_p-reinforced Al-4.5% Cu 1.5%Mg Alloy. *Material Science & Engineering*. **A210**. 76-82

Smith W.F. (1996). *Principles of Materials Science and Engineering*. 3rd ed. New York: McGraw-Hill, 123 – 816.

Song, W.O., Krauklis, P., Mouritz, A.P., Bandyupadhyay, S. *Wear*. **Vol. 185**. 125.

Soon-Jik Hong, Hong-Moule Kim, Dae Huh, C. Suryanarayana, Byong Sun Chun (2003). Effect of clustering on the mechanical properties of SiC particulate-reinforced aluminium alloy 2024 metal matrix composite, **A347** 198 - 204.

Taguchi, G. (1986). *Introduction to Quality Engineering*. Asian Productivity Organization (Distributed by American Supplier Institute Inc., Dearborn, MI).

Zainal Abidin Ahmad (1999). *Proses Pembuatan*, Jilid 1. Skudai, Johor: Penerbit Universiti Teknologi Malaysia, 221 – 222.

Zamzam M, Ros D, Grosch J.(1993). Fabrication of PM in situ fibrecomposite materials part-I: formation of fibrous structure. *Key Engineering Materials*.79–80:235 –246.