

## REFERENCE

- Deng, D. (2008). FEM prediction of welding residual stress and distortion in carbon steel. *Materials and Design* , 359–366
- Kim, T. (2010). Heat flow model for pulsed laser melting and rapid solidification of ion. *Journal Applied Physic* , 108.
- Kosher, (2003) Effects of heat input on the low power Nd:YAG pulse laser conduction. *Optics and Lasers in Engineering* , 89-96.
- Samant, A. N. (2007). Laser beam operation mode dependent grain morphology of alumina. *Journal of Laser Surface* , 102-108.
- Sheikh, M. A. (2006). An Analysis of the Effect of Laser. *Journal of Manufacturing Science and Engineering* , 667.
- C.Karatas, 2007 Corrosion behavior of laser-melted magnesium alloys. *Appl. Surf. Sci.* 247, 347–353.
- (F.T. Cheng, 2003) Laser evaporative heating of surface: simulation of flow field in the laser produced cavity. *J. Phys. D: Appl. Phys.* 39, 3863
- Lei Y.P, Murakawa H, Shi YW, Li XY. Numerical analysis of the competitive influence of Marangoni flow and evaporation on heat surface temperature and molten pool shape in laser surface remelting. *Computational Materials Science*. 2001;21(3):276-290.
- Zemskii SV, Gorodetskii VI, Emel'yanova LG. *Diffusion and distribution of sulfur in steels St3 and 13Kh18N9*. *Metal Science and Heat Treatment*. 1976; 1072

- Hu D, Kovacevic R. Modelling and measuring the thermal behaviour of the molten pool in closed-loop controlled laser-based additive manufacturing. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture. 2003;217(4):441-452.
- Herlach D. *Metastable Materials from Undercooled Melts*. Journal of Metastable and Nanocrystalline Materials. 2004;20-21:435-442.
- Klobčar D, Tušek J. *Thermal stresses in aluminium alloy die casting dies*. Computational Materials Science. 2008;43(4):1147-1154.
- R., Perrone; D., Ugues; E., Torres; U., Regina; M., Rosso. *Toughness and microstructure stability in hot-working tool steels subjected to washout in molten aluminium*. . 2008; (2-3):231; 10; 296-240.
- Audebert F, Colaco R, Vilar R, Sirkin H. Production of glassy metallic layers by laser surface treatment. Scripta Materialia, 2003;48(3):281-286.
- Li M, Wang Y, Han B, Zhao W, Han T. *Microstructure and properties of high chrome steel roller after laser surface melting*. Applied Surface Science. 2009;255(17):7574-7579.
- Lograsso T.A, Ross AR, Schlagel DL, Clark AE, Wun-Fogle M. *Structural transformations in quenched Fe–Ga alloys*. Journal of Alloys and Compounds. 2003;350(1-2):95-101.
- Hirata A, Hirotsu Y, Amiya K, Inoue A. *Quasicrystal-like structure and its crystalline approximant in an Fe<sub>48</sub>Cr<sub>15</sub>Mo<sub>14</sub>C<sub>15</sub>B<sub>6</sub>Tm<sub>2</sub> bulk metallic glass*. Journal of Alloys and Compounds. 2010;504(Supplement 1):S186-S189.

- Lim YY, Chaudhri MM. *The influence of grain size on the indentation hardness of high-purity copper and aluminium*. Philosophical Magazine A. 2002;82(10):2071.
- Liu MY, Shi B, Wang C, Ji SK, Cai X, Song HW. *Normal Hall–Petch behavior of mild steel with submicron grains*. Materials Letters. 2003;57(19):2798-2802.
- Van Elsen M, Baelmans M, Mercelis P, Kruth J-. *Solutions for modelling moving heat sources in a semi-infinite medium and applications to laser material processing*. International Journal of Heat and Mass Transfer. 2007;50(23-24):4872-4882.