

- Nelson, D. V., "Understanding thermal behavior in the LENS process," *Materials & Design*, Vol. 20, Issue 2, June 1999, pp. 107–113.
- 22 Hofmeister, W., Knorovsky, G.A., MacCallum, D.O., "Video monitoring and control of the LENS process," *AWS 9th International Conference on Computer Technology in Welding Proceedings*, 1999, pp. 417-424.
 - 23 Hofmeister, W., Griffith, M., Ensz, M., Smugeresky, J., "Solidification in direct metal deposition by LENS processing," *Journal of Materials*, Vol. 53, Issue 9, 2001, pp. 30–34.
 - 24 Wu, X., Liang, J., Mei, J., Mitchell, C., Goodwin, P., Voice, W., "Microstructures of laser-deposited Ti–6Al–4V," *Materials & Design*, Vol. 25, Issue 2, 2004, pp. 137–144.
 - 25 Brandl, E., Leyens, C., Palm, F., "Mechanical properties of additive manufactured Ti–6Al–4V using wire and powder based processes," *Materials Science and Engineering*, Vol. 26, 2011.
 - 26 Brandl, E., Michailov, V., Viehweger, B., Leyens, C., "Deposition of Ti–6Al–4V using laser and wire, part I: Microstructural properties of single beads," *Surface and Coatings Technology*, Vol. 206, Issue 6, December 2011, pp. 1120–1129.
 - 27 Kelly, S. M., Kampe, S. L., "Microstructural evolution in laser-deposited multilayer Ti-6Al-4V builds: Part I. Microstructural characterization," *Metallurgical and Materials Transactions A*, Vol. 35, Issue 6, June 2004, pp. 1861-1867.
 - 28 Kelly, S. M., Kampe, S. L., "Microstructural evolution in laser-deposited multilayer Ti-6Al-4V builds: Part II. Thermal Modeling," *Metallurgical and Materials Transactions A*, Vol. 35, Issue 6, June 2004, pp. 1869-1879.
 - 29 Collins, P. C., Welk, B., Searles, T., Tiley, J., Russ, J. C., Fraser, H. L., "Development of methods for the quantification of microstructural features in $\alpha+\beta$ -processed α/β titanium alloys," *Materials Science and Engineering A*, Issue 508, 2009, pp. 174-182.
 - 30 Sosa, J. M., Huber, D. E., Welk, B., and Fraser, H. L., "Development and application of MIPAR: a novel software package for two- and three-dimensional microstructural characterization," *Integrating Materials and Manufacturing Innovation*, Vol. 3, Issue 10, April 2014.
 - 31 Gundersen, H. J. G., Jensen, T.B., and Osterby, R., "Distribution of membrane thickness determined by lineal analysis," *Journal of Microscopy*, Vol. 113, May 1978, pp. 27-43.
 - 32 Cha, S., "Comprehensive Survey on Distance/Similarity Measures between Probability Density Function," *International Journal of Mathematical Models and Methods in Applied Sciences*, Vol. 1 Issue 4, 2007, pp. 300-307.
 - 33 Kriczky, D. A., Irwin, J., Reutzler, E. D., Michaleris, P., Nassar, A. B., Craig, J., "3D spatial resolution of thermal characteristics in directed energy deposition through optical thermal imaging," *Journal of Materials Processing Technology*, Vol. 221, July 2015, pp. 172-186.
 - 34 Loughnane, G., Groeber, M., Uchic, M., Shah, M., Srinivasan, R., Grandhi, R., "Modeling the effect of voxel resolution on the accuracy of phantom grain ensemble statistics," *Materials Characterization*, Vol. 90, April 2014, pp. 136-150.
 - 35 Donachie, M. J., *Titanium: A Technical Guide*. ASM International, 2000.