

- [6] H.-S. Byun, K. H. Lee, Determination of the optimal build direction for different rapid prototyping processes using multi-criterion decision making, *Robotics and Computer-Integrated Manufacturing* 22 (2006) 69–80.
- [7] M. Taufik, P. K. Jain, Role of build orientation in layered manufacturing: a review, *International Journal of Manufacturing Technology and Management* 27 (2013) 47–73.
- [8] S.-H. Ahn, M. Montero, D. Odell, S. Roundy, P. K. Wright, Anisotropic material properties of fused deposition modeling abs, *Rapid Prototyping Journal* 8 (2002) 248–257.
- [9] K. Chin Ang, K. Fai Leong, C. Kai Chua, M. Chandrasekaran, Investigation of the mechanical properties and porosity relationships in fused deposition modelling-fabricated porous structures, *Rapid Prototyping Journal* 12 (2006) 100–105.
- [10] A. K. Sood, R. Ohdar, S. Mahapatra, Parametric appraisal of mechanical property of fused deposition modelling processed parts, *Materials & Design* 31 (2010) 287–295.
- [11] M. Barclift, C. Williams, Examining variability in the mechanical properties of parts manufactured via polyjet direct 3d printing, *International Solid Freeform Fabrication Symposium*, Austin, TX (2012).
- [12] C. W. J.P. Moore, Fatigue characterization of 3d printed elastomer material, *International Solid Freeform Fabrication Symposium*, Austin, TX (2012).
- [13] J. Mueller, S. Kim, K. Shea, C. Daraio, Tensile properties of inkjet 3d-printed parts: Critical process parameters and how to efficiently analyze them, *ASME Computers and Information in Engineering Conference*, Boston, MA (2015).
- [14] J. Mueller, K. Shea, C. Daraio, Mechanical properties of parts fabricated with inkjet 3d printing through efficient experimental design, *Materials & Design* 86 (2015): 902-912
- [15] T. Stankovic, J. Mueller, P. Egan, K. Shea, Optimization of additively manufactured multi-material lattice structures using generalized optimality criteria, in: *International Design Engineering Technical Conferences and Computers and Information in Engineering Conference*, ASME, 2015.
- [16] T. Stankovic, J. Mueller, P. Egan, K. Shea, A generalized optimality criteria method for optimization of additively manufactured multi-material lattice structures, *Journal of Mechanical Design*, Special issue on "Design for Additive Manufacturing" (2015).
- [17] A. F2792-12a, *Standard Terminology for Additive Manufacturing Technologies*, West Conshohocken, PA, 2012.
- [18] A. Keszy, J. Kotlinski, Mechanical properties of parts produced by using polymer jetting technology, *Archives of Civil and Mechanical Engineering X* (2010).
- [19] D. Blanco, P. Fernandez, A. Noriega, Nonisotropic experimental characterization of the relaxation modulus for polyjet manufactured parts, *Journal of Materials Research* 29 (2014) 1876–1882.
- [20] A. Pilipovi, P. Raos, M. Sercer, Experimental analysis of properties of materials for rapid prototyping, *The International Journal of Advanced Manufacturing Technology* 40 (2009) 105–115.
- [21] L. Vieira, R. Paggi, G. Salmoria, Thermal and dynamic-mechanical behavior of fullcure 3d printing resin postcured by different methods, in: *Innovative Developments in Virtual and Physical Prototyping: Proceedings of the 5th International Conference on Advanced Research in Virtual and Rapid Prototyping*, Leiria, Portugal, 28 September-1 October, 2011, CRC Press, 2011, p. 385.
- [22] A. Cazan, P. Morer, L. Matey, Polyjet technology for product prototyping: Tensile strength and surface roughness properties, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture* 228 (2014) 1664–1675.
- [23] Alphacam, *Kunststoffspritzformen aus dem 3d drucker*, http://www.alphacam.de/dynamic/ksf/Praesentation_PolyJet_Form.pdf, 2014. Accessed: 2014-12-03.
- [24] B. Caulfield, P. McHugh, S. Lohfeld, Dependence of mechanical properties of polyamide components on build parameters in the sls process, *Journal of Materials Processing Technology* 182 (2007) 477–488.
- [25] C. C. Chen, P. A. Sullivan, Predicting total build-time and the resultant cure depth of the 3d stereolithography process, *Rapid Prototyping Journal* 2 (1996) 27–40.
- [26] J. Manguia, J. Ciurana, C. Riba, Neural-network-based model for build-time estimation in selective laser sintering, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture* 223 (2009) 995–1003.
- [27] J. Giannatsis, V. Dedoussis, L. Laios, A study of the build-time estimation problem for stereolithography systems, *Robotics and Computer-Integrated Manufacturing* 17 (2001) 295–304.
- [28] I. Campbell, J. Combrinck, D. de Beer, L. Barnard, Stereolithography build time estimation based on volumetric calculations, *Rapid Prototyping Journal* 14 (2008) 271–279.
- [29] G. P. Kumar, S. P. Regalla, Optimization of support material and build time in fused deposition modeling (fdm), *Applied Mechanics and Materials* 110 (2012) 2245–2251.
- [30] G. A. Teitelbaum, *Proposed build guidelines for use in fused deposition modeling to reduce build time and material volume*, ProQuest, 2009.
- [31] J. A. Cornell, *Experiments with mixtures: designs, models, and the analysis of mixture data*, vol.895, John Wiley & Sons, 2011.
- [32] A. D695-10, *Standard Test Method for Compressive Properties of Rigid Plastics*, West Conshohocken, PA, 2010.
- [33] A. D638-10, *Standard Test Method for Tensile Properties of Plastics*, West Conshohocken, PA, 2010.
- [34] G. Z. Voyiadjis, P. I. Kattan, *Mechanics of composite materials with Matlab*, Springer Science & Business Media, 2005.
- [35] A. J. Kinloch, *Adhesion and adhesives: science and technology*, Springer Science & Business Media, 1987.
- [36] M. Ashby, D. Jones, *Engineering Materials 1: An Introduction to Properties, Applications and Design*, Butterworth-Heinemann, 2012.
- [37] M. Fujiyama, H. Awaya, S. Kimura, Mechanical anisotropy in injection-molded polypropylene, *Journal of Applied Polymer Science* 21 (1977) 3291–3309.
- [38] F. Johannaber, W. Michaeli, *Handbuch Spritzgießen*, Hanser, 2002.
- [39] A. Rinaldi, *Optimization of object printing orientation*, Semester thesis, ETH Zurich, Switzerland, 2015.