World Academy of Science, Engineering and Technology International Journal of Mechanical and Industrial Engineering Vol:10, No:01, 2016

A Holistic Approach for Technical Product Optimization

Authors: Harald Lang, Michael Bader, A. Buchroithner

Abstract : Holistic methods covering the development process as a whole – e.g. systems engineering – have established themselves in product design. However, technical product optimization, representing improvements in efficiency and/or minimization of loss, usually applies to single components of a system. A holistic approach is being defined based on a hierarchical point of view of systems engineering. This is subsequently presented using the example of an electromechanical flywheel energy storage system for automotive applications.

Keywords: design, product development, product optimization, systems engineering

Conference Title: ICDPD 2016: International Conference on Design and Product Development

Conference Location: Paris, France Conference Dates: January 21-22, 2016