

Optimization Of Turning Parameters Using Taguchi Method

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Optimization Of Turning Parameters Using

Then, the surface-roughness parameters and cutting temperature found in hard turning were optimized by using the teaching-learning-based optimization and bacteria foraging optimization separately. Later, the optimum results are compared with respect to common parameters of interest.

Intelligent Optimization of Hard-Turning Parameters Using ...

Today in manufacturing and metal industries customer satisfaction is very important to make own place in competitive market and also to make mirror image with faith in the heart of customer, because customer gives preference to buy good quality

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Optimization of turning parameters by using design of experiments and simulated annealing algorithm based on audible acoustic emission signals T Tamizharasan, J Kingston Barnabas, and V Pakkirisamy Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture 2012 226 : 7 , 1159-1173

Optimization of turning parameters by using design of ...

Optimization of turning process parameters by using grey-Taguchi S. K. Madhavi 1, D. Sreeramulu 2*, M. Venkatesh 3 1,2,3 Department of Mechanical Engineering, Aditya Institute of Technology and Management, Tekkali, A.P, INDIA

*Corresponding Author: e-mail:dawlurusreeram@gmail.com, Tel +91-9490457054 Abstract

Optimization of turning process parameters by using grey

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S. Ranganathan, T. Senthilvelan Multi-response optimization of machining parameters in hot turning using grey analysis Int. J. Adv. Manuf. Technol., 56 (2011), pp. 455-462, 10.1007/s00170-011-3198-5 Google Scholar

Optimization of hot turning parameters using principal ...

of optimization for a wide variety of applications. The objective of the present work is to apply Taguchi method to investigate the effects of turning parameters such as cutting speed, depth of cut and feed rate on surface roughness, Material removal rate and Power consumption in dry Turning of EN 24 steel ...

Optimization of Turning Process Parameters for AISI 4340

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parameters which directly or indirectly influence the surface quality of the product. Current investigation on turning process is a Taguchi optimization technique applied on the most effective process parameters i.e. feed, cutting speed and depth of cut. In this project Taguchi method is used to

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Optimization of Cutting Parameters in Rough Turning using ...

Recently, the concept of smart manufacturing systems urges for intelligent optimization of process parameters to eliminate wastage of resources, especially materials and energy. In this context, the current study deals with optimization of hard-turning parameters using evolutionary algorithms. Though the complex programming, parameters selection, and ability to obtain the global optimal ...

Intelligent Optimization of Hard-Turning Parameters Using ...

of rotation. Turning is carried out on a lathe that provides the power to turn the work piece at a given rotational speed and to feed the cutting tool at a specified rate and depth of cut. Therefore, three cutting parameters, i.e. cutting speed, feed rate and depth of cut need to be determined in a turning operation.

Optimization of turning parameters for surface roughness

In the current work, some experiments were performed based on a design of experiment (DOE) technique called full factorial design. The experimental results are discussed in statistical analysis, and the system was modeled using the artificial neural network (ANN) and subsequently optimized by a genetic algorithm (GA). The statistical analysis shows that the main effects and some 2-interaction ...

Optimization of turning process using artificial ...

using CVD coated DURATOMICTM cutting insert”, International Journal of Industrial Engineering Computations 3, pp. 577–586, 2012 [6] M. Nalbant, H. Go`kkaya& G. Sur, “Application of Taguchi method in the optimization of cutting parameters for surface roughness in turning”, Elsevier Journal, Materials and Design 28, pp. 1379–1385, 2007

Optimization of Machining Parameters for Turning Different ...

Optimization of Cutting Parameters in Turning of AA6351 Using Response Surface Methodology and Genetic Algorithm P. Jayaraman* Research Scholar, St. Peter’s University, Associate

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Professor, ...

Optimization of Cutting Parameters in Turning of AA6351

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Sahoo: Optimization of Turning Parameters for Surface Roughness Using RSM and GA 198 roughness modeling in turning operation is presented here. Palanikumar et al. [1] found that feed rate has greater influence on surface roughness parameter (R_a), followed by cutting speed and % volume fraction of SiC in machining of Al/SiC particulate composites.

OPTIMIZATION OF TURNING PARAMETERS FOR SURFACE ROUGHNESS ...

The goal is "Optimization of turning process parameters for AISI 410 Steel using Taguchi Method". W.H. Yang [1] investigated the Taguchi method provides a systematic and efficient methodology for the design optimization of the cutting parameter with far less effect than would be required for most optimization techniques. S.

Optimization of turning process parameters for AISI 410

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considered as turning parameters. Johnsan et. al. (2014) employed Taguchi methodology for the optimization of cutting parameters and minimal use of cutting fluid during turning of oil hardened non shrinkable steel (OHNS). An attempt was also made to compare result that was obtained

Multi Response Optimization of Turning Parameters using

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1. Introduction. Turning process was the traditional method to convert the raw material in to desired product. In CNC machining process used to upgrade the efficiency and output parameters compare with the manual methods like manually and semi-automatic lathe.

Optimization of machining process parameters in CNC ...

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Optimization Of Turning Parameters Using Taguchi Method

OPTIMIZATION OF TURNING PARAMETERS OF EN-9 STEEL USING DESIGN OF EXPERIMENTS CONCEPTS B Kumaragurubaran1*, P Gopal1, T Senthil Kumar1, M Prasanna Mugunthan1 and N H Mohamed Ibrahim1 *Corresponding Author: B Kumaragurubaran, pramuk82@gmail.com Recently EN-9 steel finding many applications like shaft, axle, gears and fasteners. Due their

OPTIMIZATION OF TURNING PARAMETERS OF EN-9 STEEL USING ...

OPTIMIZATION OF PROCESS PARAMETERS IN CNC TURNING USING RSM Yakala Mani Ratnam1, N Govindu2, Vikas Ranjan3 1M.Tech (Cad/Cam) 2Asst.Professor, Mechanical Engineering Dept 3M.Tech, Asst.Professor Abstract— The optimization techniques of machining Efficient turning of EN8 steel material can be achieved through proper selection of turning process

OPTIMIZATION OF PROCESS PARAMETERS IN CNC TURNING USING RSM

PDF | On Jan 31, 2017, Ch. Maheswara Rao and others published Optimization of Cutting Parameters Using Weighted Principal Component Analysis (WPCA) Combined with Grey Relational Analysis (GRA ...

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