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Optimization of Process Parameters for Axial Flow Forming ...
Optimization of Process Parameters for a Quasi-Continuous Tablet Coating System Using Design of Experiments Christine Cahyadi,Paul Wan Sia Heng,and Lai Wah Chan GEA-NUS Pharmaceutical Processing Research Laboratory, Department of Pharmacy, Faculty of Science, National University of Singapore, 18 Science Drive 4, Singapore, 117543 Singapore

Optimization of Process Parameters for a Quasi-Continuous ...
Optimization of Process Parameters for Production of Pectinase Using Bacillus Subtilis MF447840.1 Recent Pat Biotechnol. 2019;13(1):69-73. doi: 10.2174/1872208312666180917094428. Authors Ram Balak Mahto 1 2 , Mukesh Yadav 1 , Soumya Sasmal 2 , Biswnath Bhunia 3 Affiliations 1 Department of Biotechnology, Maharishi ...

Optimization of Process Parameters for Production of ...
The results also show that the simulation analysis provides the basis for the optimization of the forming process parameters, and it can greatly shorten the die manufacturing cycles, reduce the production costs, and improve the production efficiency.

Ma , Huang : Optimization of Process Parameters of ...
Kamal, M.M., Ali, M.R., Shishir, M.R.I. et al. Optimization of process parameters for improved production of biomass protein from Aspergillus niger using banana peel as a substrate. Food Sci Biotechnol 28, 1693-1702 (2019). <https://doi.org/10.1007/s10068-019-00636-2>. Download citation.

Optimization of process parameters for improved production ...
experiment was to identify the process control parameters that are likely to affect the quality of FDM parts. Three process parameters are selected at three different levels as shown in table (1). Table 1: Selection of process parameters and their levels. Parameter Notation Level 1 Level 2 Level 3 Layer thicknessA 0.1778 0.254 0.330 in mm Air ...

Optimization of Process Parameters in FDM Process Using ...
Process parameter is one of the process variable that may influence the quality of printed part. For this study, the focus process parameter are layer thickness and exposure time. Layer thickness is layer height of each successive addition of material in Additive Manufacturing (AM) in which layer are stacked.

OPTIMIZATION OF PROCESS PARAMETER FOR DIGITAL LIGHT ...
Process optimization is the practice by which process knowledge is developed and formulated in such a way that it can be applied effectively to guide equipment selection process parameters, process conditions, and process control strategies, irrespective of scale. 3, 4

OPTIMIZATION OF VARIOUS PROCESS PARAMETERS FOR FORMULATION ...
The process parameters paint mass and rotational speed have been defined as discrete optimization parameters, each with a corresponding list of discrete values. Possible combinations between these two discrete parameters were generated by means of a list of conditional dependencies.

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Chhabra et al. used multilevel optimization and Kumar et al. used GA-ANN & GA-ANFIS to optimize various process parameters. Deswal et al. optimized the significant process parameter of FDM 3d printer parts to increase their dimensional accuracy using the hybrid tool. Download : Download high-res image (877KB)

Optimization of FDM 3D printing process parameters for ...
Title:Optimization of Process Parameters for Production of Pectinase using Bacillus Subtilis MF447840.1 VOLUME: 13 ISSUE: 1 Author(s):Ram Balak Mahto*, Mukesh Yadav, Soumya Sasmal and Biswnath Bhunia Affiliation:Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana 133207, Ambala, Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University ...

Optimization of Process Parameters for Production of ...
Optimization of Process Parameters of Pressure Die Casting using Taguchi Methodology. The present work analyses different parameters of pressure die casting to minimize the casting defects. Pressure diecasting is usually applied for casting of aluminium alloys. Good surface finish with required tolerances and dimensional accuracy can be ...

Optimization of Process Parameters of Pressure Die Casting ...
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In this study, the optimization objective is to generate process parameters for the molding of optimal products of a standard weight. Because the weight of the molded product has an either positive or negative error, the optimization problem can be converted into a classification problem.

Optimization of Injection-Molding Process Parameters for ...
In both series of optimization, the following parameters were considered: the concentration of dissolved propionate, the concentration of dissolved acetate, overall biogas production. The selection of process constants adjusted in this work is limited to disintegration constant for feedstock, maximum uptake rate for acetate metabolizing ...

Heuristic methods in optimization of selected parameters ...
This paper summarizes the Taguchi optimization technique, in order to optimize the process parameters in EDM & SR for Monel 400.The work piece thickness has been considered as the control factor.

(PDF) Optimization of EDM process parameters using Taguchi ...
Process optimization is the discipline of adjusting a process so as to optimize (make the best or most effective use of) some specified set of parameters without violating some constraint. The most common goals are minimizing cost and maximizing throughput and/or efficiency. This is one of the major quantitative tools in industrial decision making .

Process optimization - Wikipedia
Three levels of process parameters were chosen. The L-18 orthogonal array is selected to optimize the parameters of WEDM for machining of Titanium grade 5 alloy. Finally, a genetic algorithm, a...