Keywords: Reverse engineering, Taguchi Method, product model construction, point cloud, finite element model.

Taguchi method, was evaluated by finite element package for stresses and displacement at hit area, and compare with those of old points distance. Finally, giving the load condition on hit surface of old head, the model constructed from the previous result of orthogonal array L₉(3⁴) and Smaller-the-Better to obtain the optimal parameter set. The quality is measured by the average parameters (uniform sampling, curvature sampling, decimation, reduced polygon noise) three level are selected. Then use Taguchi practical experience operating for the model reconstruction from its point cloud under Geomagic package, four significant obsoleted machines. In this research, the old head is illustrated. To have a fast and good achievement in quality, based on the research, the cases of functional curved-surface and the tools or parts used in the modern research, especially for the cases of functional curved-surface and the tools or parts used in the modern research, the integration of model construction in the reverse engineering, CAD system and Mechanical technique for analysis such as FEM are increasing in the modern research, especially for the cases of functional curved-surface and the tools or parts used in the modern research, especially for the cases of functional curved-surface and the tools or parts used in the modern research, the integration of model construction in the reverse engineering, CAD system and Mechanical technique for analysis such as FEM are increasing in the modern research.

Along with the popularization of CAD system in industrial application and the needs of virtual environmental technology, the integration and application for reverse engineering and mechanical engineering design are increasing in the modern research.
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