

ABSTRACT

A tool design method is provided by present disclosure. The method includes the following steps of :obtaining a group of simulation service life parameters by simulating a plurality of sets of geometric feature parameters of a tool on a simulation software; using a neural network
5 algorithm with the plurality of sets of the geometric feature parameters and the group of simulation service life parameters to get a tool surrogate model; optimizing a target geometric feature parameter with an optimal service life parameter by integrating a Particle Swarm Optimization (PSO) algorithm and the tool surrogate model and designing the tool according to the target geometric feature parameter. FIG. 2.

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