高爾夫球桿頭最佳化設計

徐永源,丁嘉緯
機械工程學系
工學院
janason@chu.edu.tw

摘要

The purpose of this research is to develop an optimum automatic formation model of the golf club head by using the optimal designing techniques to combine the techniques of the design ideas, standard specifications, analysis results, and the best parameters of the golf club head, also to create other techniques such as the modeling method to blend into the optimum gold club head model. In order to proceed with the optimized design of the golf club head, the objective function, design variables and constraint conditions needs to be clearly defined. The objection function is the farthest hitting distance and largest sweet area. The optimum automatic formation model of the golf club head is developed by using the customized developing technique (knowledge fusion) of Unigraphics (UG) software. Also, the optimum model is efficiently generated by operating the program and integrating the various optimum designing techniques and knowledge into the system. Finally, the optimum value obtained displays the optimized golf club head model through the windowing method.

關鍵字：Keywords：Golf club head, Optimization, Knowledge fusion, Customization, Sweet area