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Abstract
The linkage reducer consists of kinematic links, which is main for reducing speed and increasing moment. To compare with gear reducer, the adventages of linkage reducers are smaller volume, high reducing speed ratio, and no backlash… etc. However, there are only few literatures on this subject of the lamination-type impulse drive. The purposes of the thesis are structure design, kinematic analysis, and sensitivity analysis for the lamination-type impulse drive. First, the design regnirements and constrains and obtained by analysizing the principle of the linkage reducer and the properties of topological structures. Then, new laminateon-type impulse drives are synthesized by Yan creative design methodology for mechanical derices, Additionally, the existing mechanicsm is analysized Kinematic parameters by the rector-loop method. Finally, the sensitivity analysis is proceed by the results and method of Kinematic analysis.
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