直昇機旋翼於空氣動力和尾流動力耦合系統之穩健化研究

The purpose of this study is to use the robust design concept which considering the effect of manufacturing and variability on a design through an unsteady aerodynamic system and obtain the steady output for the optimum design of the rotor blade. In this research we develop a new approach for helicopter rotor blade optimum configuration design by optimality index concept and statistical method. Therefore, a new variable move limit technique was developed and applied to the helicopter complex nonlinear systems.