

IV. CONCLUSION

In design of the test platform, three-dimensional modeling is done and the structure of the test platform is analyzed using UG in order to ensure that test platform has enough strength and stiffness. For solving the difficult coupling problem of loading forces, fuzzy control is used in the system. Then, simulation results of co-simulation of AMESim and Simulink demonstrate better performance of this neural fuzzy controller, which conform that our control policy can settle the coupling problem of loading force. Experimental results show that the system has good dynamic and static performance indices and excellent control results, and also this test platform has important theoretical and practical significance in future.

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