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In order to investigate the pulsation issue of the constant power mechanical regulator system with variable displacement axial piston pump, the internal dynamics of the constant power regulator are studied by the AMESim software. The internal dynamics of un-measurable components are analyzed by the AMESim software. The unmeasurable internal dynamics of the un-measurable components are described by nonlinear functions using the nonlinear virtual model and model dynamics equations can be derived from the nonlinear virtual model. The theoretical analysis of the constant power regulator is induced for precise modeling, and the internal dynamics of un-measurable components are studied. The simulation result is verified by comparing with the experimental output of the real system. By analyzing the dynamics of the un-measurable internal components, it is found that the irregular discharge flow rate is caused by the discontinuous shape at the edge of the counterbalance piston. Therefore, a new method to find out the cause of poor performance of the mechanical regulator system with VDAPP by using the commercial simulation software AMESim is proposed. The redesigned shape of the counterbalance piston is applied to the simulated system model using AMESim. The validation is verified by comparing with the experimental output of the real system. Figure 23 shows the flow rate response of the two AMEsim models with different pressure-relief valve positions. In the experiment, the reference input is a constant input pressure of 100.2 mm H_2O, and the system pressure is regulated at the desired output pressure, which is of 20.2 mm H_2O. The maximum fluctuation of the two models is about 10 liters per minute. In contrast to the output of the mechanical regulator with VDAPP, the flow rate responses of the two AMEsim models do not match well. Therefore, it can be concluded that the performance of the mechanical regulator with VDAPP is difficult to be modeled using a traditional AMEsim submodel.

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the transient flow field for the control valve was simulated using amesim and fluent. the simulation results of amesim were observed to correspond with those of fluent. figure 12 shows the results of the analysis at the valve inlet of the control valve. at t=0.7s, the maximum velocity at the valve inlet was approximately 0.3ms-1 5ec8ef588b

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