

ABSTRACT

An adjusting unit in a feedback loop for controlling a hydraulically operated-type load mechanism consists of two portions both adapted to effect proportional action and derivative action. Weights are applied to these two portions independently. Hence, an output y can be made to follow sudden changes in a target value r with fast response without the occurrence of overshoots, and the effect of a disturbance input w is alleviated to a maximum. In addition, since integral action is not effected in the adjusting portions, the term of $1/s^2$ is not included in transfer functions of inputs and outputs, thereby realizing stability of control.



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