

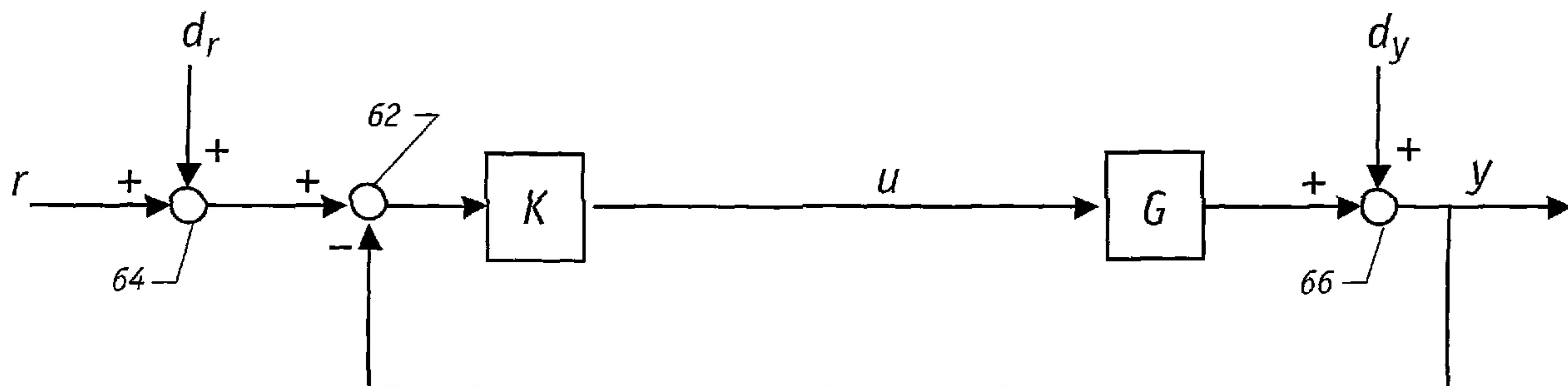


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(54) Titre : ESSAI AU CHOC INVERSE POUR IDENTIFICATION EN CIRCUIT FERME D'UN ALIGNEMENT PAR
CONTROLEUR CD

(54) Title: REVERSE BUMP TEST FOR CLOSED-LOOP IDENTIFICATION OF CD CONTROLLER ALIGNMENT



(57) Abrégé/Abstract:

A reverse bump test, for identifying the alignment of a sheetmaking system while the system remains in closed-loop control, includes the following steps: (a) leaving the control system in closed-loop, (b) artificially inserting a step signal on top of the measurement (or setpoint) profile from the scanner, (c) recording the data as the control system moves the actuators to remove the perceived disturbance (or setpoint change), and (d) refining or developing a model from the artificial measurement disturbance (or setpoint change) to the actuator profile. The technique supplies the probing/perturbation signal to the scanner measurement (which is equivalent to supplying the probing/perturbation signal to the setpoint target) rather than inserting bumps via the actuator set points as has been practiced traditionally.



