



Vibration Control Implementation

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | In a Braking System | A novel approach to suppress vibration that causes brake noise is proposed employing a closed-loop feedback control method using an active force control (AFC) based strategy and fuzzy logic controller. The idea is to introduce an active element that dynamically compensates the disturbances through a control mechanism that takes into account the direct measurements and estimation of parameters in the AFC section. A disc brake model is considered and simulated taking into account a number of operating and loading conditions. Results clearly show the superiority of the proposed AFC + fuzzy -based scheme compared to the AFC+ PID and pure PID counterpart in suppressing the vibration and hence the brake noise. | Format: Paperback | Language/Sprache: english | 100 pp.



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