Abstract

The objective of this paper is to provide directional control during handling maneuvers and effective isolation of passengers or pay load from road disturbances. Active suspension system is considered to be a way of increasing the freedom that one has to specify independently the characteristics of load carrying, handling and ride quality. In this paper, a quarter bus suspension system is simulated and the behaviour of the system has been analyzed for disturbances. A PID controller is designed by the method of relay experiment and is considered for control of the Quarter bus suspension system.

References

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Signal Processing

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Vehicle Directional control  PID tuning  Riding comfort  Relay experiment method.