

Chapter 7. Microcontroller Implementation Consideration

The overall performance of wheel slip control systems have been limited in the past primarily by the unavailability of low cost, flexible, high-speed electronic technology. The application of high speed digital microcontrollers in anti-lock brake systems allows increased computational capabilities and control performance. In this section, a Motorola 68HC11 microcontroller is evaluated for its suitability for the anti-lock brake control application. This family of microcontroller have been used in FLASH lab, Virginia Tech Center for Transportation Research for evaluation of the automatic highway system concepts and technologies (Kachroo, 1995). Due to the unavailability of the small-size electromagnetic brakes, we have not implemented the electromagnetic brakes and its control system on the small-scale vehicle in FLASH lab. But the digital control algorithm of the possible ABS system is evaluated and features of 68HC11 and alternative families of microcontrollers are evaluated to estimate their suitability for ABS application.

For regular friction brakes, modulated brake torque can be calculated and applied to every individual wheel because there is a possibility that different wheels are on different road surfaces. On the other hand, due to the location of electromagnetic brakes, its output torque must be applied to all four wheels in an overall base. The anti-lock brake system discussed in this section takes both situations into consideration.

Chapter 7 Microcontroller Implementation Consideration

M Woodhall



Chapter 7 Microcontroller Implementation Consideration:

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