Abstract

This paper focuses on the simulation and development of the ECU for an electric assisted power steering system. This article begins by introducing the EPS (Electric Power Steering) system concept and comparing the technical and commercial benefits with existing technologies. This EPS system improves the engine efficiency, reduces the weight and, thereby, reduces the fuel consumption. The electronic control unit is implemented using the Freescale's...
S12X microcontroller and the responsiveness in the steering is achieved by providing different motor assistance at different vehicle velocities. This active steering is possible using intelligent fuzzy logic control mechanism in the ECU.

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Index Terms

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Key words

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