

Introduction to Automotive

Report

Lab 9: EPS



Student Name	Ahmed Mohsen Abd El Fattah
ID	1901061

Electric Power Steering:

Electric power steering (EPS) is a technological marvel in the automotive world, transforming the way vehicles handle and drivers interact with the road. By replacing bulky hydraulic systems with electric motors, EPS provides precise and responsive steering assistance, tailored to the driver's input and driving conditions. This innovation not only enhances maneuverability and control but also contributes to improved fuel efficiency by reducing the load on the engine. With its adaptive capabilities, EPS adapts to various driving situations, ensuring a smooth and effortless steering experience whether navigating tight city streets or cruising on the highway. Moreover, its integration with vehicle stability systems enhances safety by aiding in accident prevention and recovery. In essence, electric power steering epitomizes the marriage of technology and automotive engineering, elevating the driving experience to new heights of comfort, efficiency, and safety.

MATLAB Snippets:



