

Analysis of the ABS braking system on automobiles and design of its control model.

Nguyen Gia Huy

Abstract: In the context of increasing attention to traffic safety, this topic focuses on analyzing the Anti-lock Braking System (ABS) in automobiles. The objective of the study is to identify and optimize the performance of the ABS to minimize the risk of losing vehicle control during emergency braking situations. By combining theoretical methods with experimentation, the topic will develop a control model based on modern algorithms to improve the system's handling capabilities. The research results not only contribute to the development of traffic safety technology but also support the product design and validation process.

Keywords: ABS braking system, Automobile, Control model, Performance optimization, Traffic safety