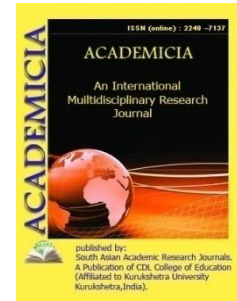




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## **THEORETICAL FOUNDATIONS OF THE ACCELERATION SLIP REGULATION SYSTEM**

**Abdulaziz Solijon ogli Khusanjonov\***; **Shohruhbek Ilhomjon ogli Nosirjonov\*\***

\*Assistant,

Department of Ground transport systems and,  
Their exploitation at the Fergana polytechnic institute,  
UZBEKISTAN

\*\*Assistant,

Department of Ground transport systems and,  
Their exploitation at the Fergana polytechnic institute,  
UZBEKISTAN

### **ABSTRACT**

*In this work discusses the structure of the acceleration slip regulation system used in modern cars and the principle of its operation. The purpose is to prevent the vehicle, especially the high-powered vehicle from starting, to accelerate the wheel slip to maintain the stability of the vehicle's driving direction, to maintain good handling and the most suitable driving force to ensure safe driving. Most acceleration slip regulation methods are based on slip ratio control. This method requires the vehicle speed, which can be obtained using the speed of the driven wheels or vehicle speed sensors. Since all the forces are used by the driving force, the steering force of the turning is lost, so the steering force that causes the vehicle to turn or maintain the direction of the vehicle will be lost, which may cause the direction of the vehicle to be unstable.*

**KEYWORDS:** *Transport Vehicles, Technical Exploitation, Technical Condition, Control.*

**REFERENCES**

1. Hurmamatov, A. M., & Hametov, Z. M. (2020). Definitions the division factor at purification of oil slime of mechanical impurity. *ACADEMICIA: An International Multidisciplinary Research Journal*, 10(5), 1818-1822.
2. Xametov, Z., Abdubannopov, A., & Botirov, B. (2021). YUK AVTOMOBILLARINI ISHLATISHDA ULARDAN FOYDALANISH SAMARADORLIGINI BAHOLASH. *Scientific progress*, 2(2), 262-270.
3. Hurmamatov, A. M., & Hametov, Z. M. (2020). Results of preparation of oil slime for primary processing. *ACADEMICIA: An International Multidisciplinary Research Journal*, 10(5), 1826-1832.
4. Файзиёв, П. Р., Исмадиёров, А., Жалолдинов, Г., & Ганиев, Л. (2021). Солнечный инновационный бытовой водонагреватель. *Science and Education*, 2(6), 320-324.
5. Xodjayev, S., Xusanjonov, A., & Botirov, B. (2021). TRANSPORT VOSITALARI DVIGATELLARIDA DIMETILEFIR YOQILG'ISIDAN FOYDALANISH. *Scientific progress*, 2(1), 1531-1535.
6. Xusanjonov, A., Qobulov, M., & Ismadiyurov, A. (2021). AVTOMOBIL SHOVQINIGA SABAB BO'LUVCHI MANBALARNI TADQIQ ETISH. *Academic research in educational sciences*, 2(3).
7. Chau, K.T.; Chan, C.C.; Liu, C. Overview of permanent-magnet brushless drives for electric and hybrid electric vehicles. *IEEE Trans. Ind. Electron.* 2008, 55, 2246–2257.
8. Lingfei W., Jinfang G., Lifang W., Junzhi Z. Acceleration Slip Regulation Strategy for Distributed Drive Electric Vehicles with Independent Front Axle Drive Motors. *Energies* 2015, 8, 4043-4072.