

SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution) COIMBATORE-35.



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DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE NAME : 19AU0302 - RECENT TRENDS IN AUTOMOBILES

III YEAR / VI SEMESTER

Unit 5 – Adaptive Control Systems

Topic : Anti-spin Regulation

5/9/2024

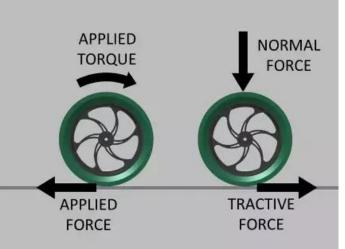
19AU0302 - Recent Trends in Automobile - Antispin Regulation / Mr.C. Subramanian (AP/ AUTO / SNSCT)



TRACTION



- The force available at the contact between the drive wheel tyres and road is known as 'tractive effort'.
- The ability of the drive wheels to transmit this effort without slipping is known as 'traction
- Traction is the friction between a drive wheel and the road surface
- Traction will be less in Slippery Roads.





NEED FOR TRACTION CONTROL SYSTEM



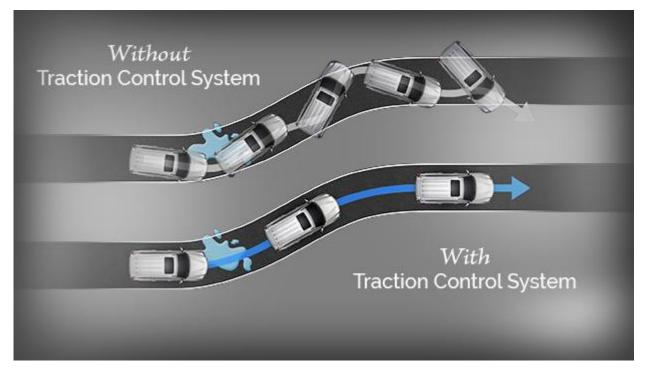






- > **Traction control** is an active vehicle safety feature designed to help vehicles
 - make effective use of all the traction available on the road when accelerating on

low-friction road surfaces.



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COMPONENTS



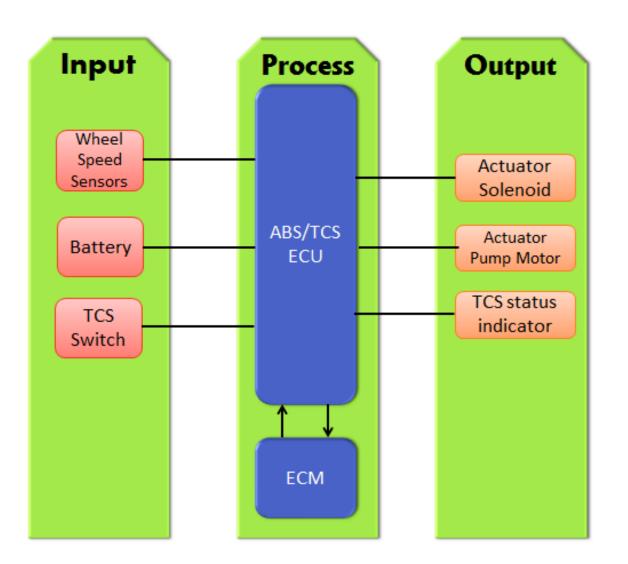
- Wheel Speed Sensors
- Traction Control Module
- Hydraulic Modulator





WORKING







ADVANTAGES



- The installation of the traction control system is easy as it uses the same infrastructure as the ABS
- > In snow and rain conditions the traction control system presents an effective control.
- When there is any problem during the rotation of the vehicle the system detects it and activates the brakes on the wheel prevents it from slipping





DISADVANTAGES



- Capital cost is high
- Requires Proper Maintenance



REFERENCE



https://en.wikipedia.org/wiki/Traction_control_system





THANK YOU !!!

5/9/2024