

SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution) COIMBATORE-35.



Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE NAME : 19AU0302 - RECENT TRENDS IN AUTOMOBILES

III YEAR / VI SEMESTER

Unit 5 – Adaptive Control Systems

Topic : Adaptive Noise Control





- > Noise is unwanted sound considered unpleasant, loud or disruptive to hearing.
- > There are many different varieties of instruments that are used to measure

noise



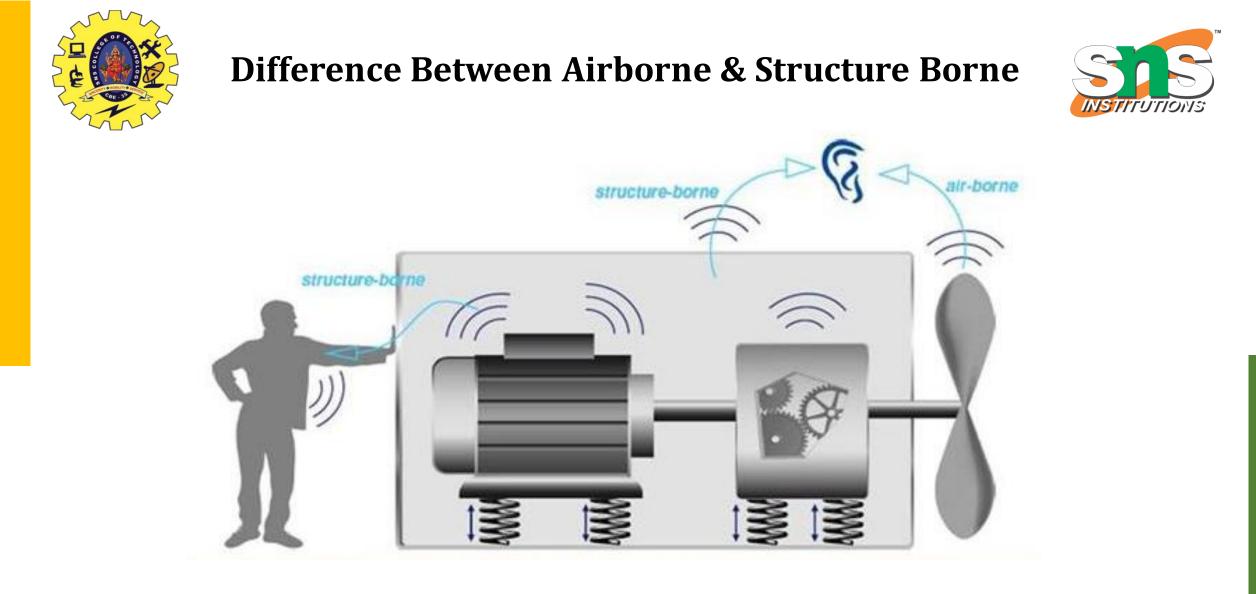


Automotive Noise



- Noise control is becoming increasingly important for a wide variety of OEM Designer.
- > Some of the automotive noises are **Engine Noise, Transmission Noise, Intake**
 - and Exhaust Noise, Aerodynamic Noise, Tire Noise, Brake Noise.

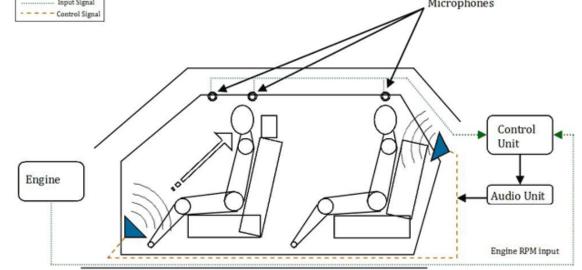






INTRODUCTION TO ADAPTIVE NOISE CONTROL

- The principle of adaptive noise control is to cancel out the original source of noise by using sound.
- In this method the original noise is picked up by a microphone, inverted and amplified, and then replayed by a suitably located speaker. This effectively cancels out the noise.





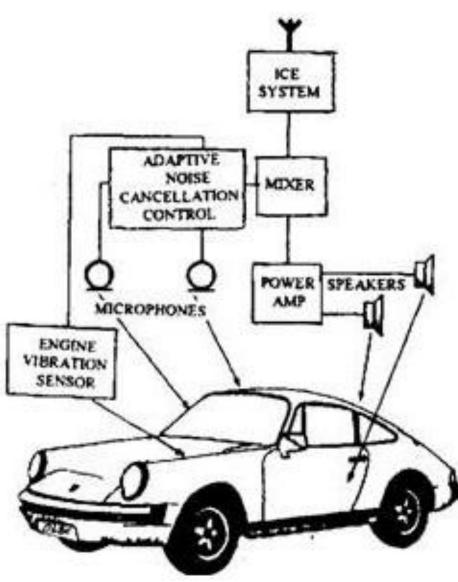
COMPONENTS



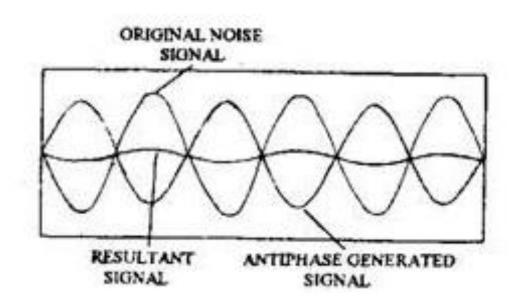
- > Microphone
- Digital Processing Unit
- ➤ Speaker













ADVANTAGES



- Provides good comfort while driving.
- Reduces the Driver fatigue





REFERENCE



http://what-when-how.com/automobile/adaptive-noise-control-automobile/





THANK YOU !!!

5/9/2024

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