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Acoustical Materials

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Acoustical Materials

SAE
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What is
acoustics?
What is noise?
How is sound
measured?
How can the
vehicle noise
be reduced
using sound
package
treatments?
Pranab Saha
answers these
and more in
Acoustical
Materials.

Acoustics is
the science of
sound,
including its
generation,
propagation,
and effect.
Although the
propulsion
sources of
internal
combustion
engine (ICE)
vehicles and
electric motor-
powered
vehicles (EV)
are different
and therefore
their
propulsion
noises are
different, both
types of
vehicles have

shared noise
concerns: Tire
and road noise
Wind noise
Vehicle noise
and vibration
issues have
been there
almost from
the inception
of vehicle
manufacturing
. The noise
problem in a
vehicle is very
severe and is
difficult to
solve only by
modifying the
sources of
noise and
vibration.
Sound
package
treatments

address the noise and vibration issues along the path to reduce in-cabin noise. In Acoustical Materials, readers will grasp the science of reducing sound and vibration using sound absorbers, sound barriers, and vibration	dampers. Sound provides information on the proper operation of the vehicle, but if unchecked, can detract from the consumer experience within the vehicle and create noise pollution outside the vehicle. Acoustical Materials	provides essential information on the basics of sound, vehicle noise source, how these are measured, how vehicle owners perceive sound, and ultimately, how to solve noise problems in vehicles using sound package materials.
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