Regenerative Braking Systems
Chapter 10

ACROSS

2 Another name for friction brakes is ________.
4 The faster an object is ____________, the more force that has to be applied.
6 In ________________ brake systems, the amount of regeneration is proportional to the brake pedal position.
8 A shortened name for regeneration is _____.
10 A ________________ braking system is less complex because the base brakes are used along with energy recovery by the motors becoming generators.
11 All series regenerative braking systems use an ________________ system which includes the hydraulic control unit that manages the brake cylinder pressures, as well as the front-rear axle brake balance.
12 ____________ is the process where electricity becomes electrical energy, which is directed to and recharges the high-voltage battery.
14 A hybrid electric vehicle relains energy by converting the energy of a moving object, called ____________, into electric energy.

DOWN

1 Another name for regeneration is ____________ ________.
2 Some systems use a ________________ sensor as an input signal to the brake ECU.
3 ____________ is the amount of matter in an object.
5 When connected to _____ batteries that can charge and discharge very quickly, the package is complete.
7 All vehicles generate ________ to move the wheels to drive the vehicle down the road.
9 ____________ is the resistance of an object to change its state of motion.
13 A _____ applied to move an object results in the equation: F = ma.