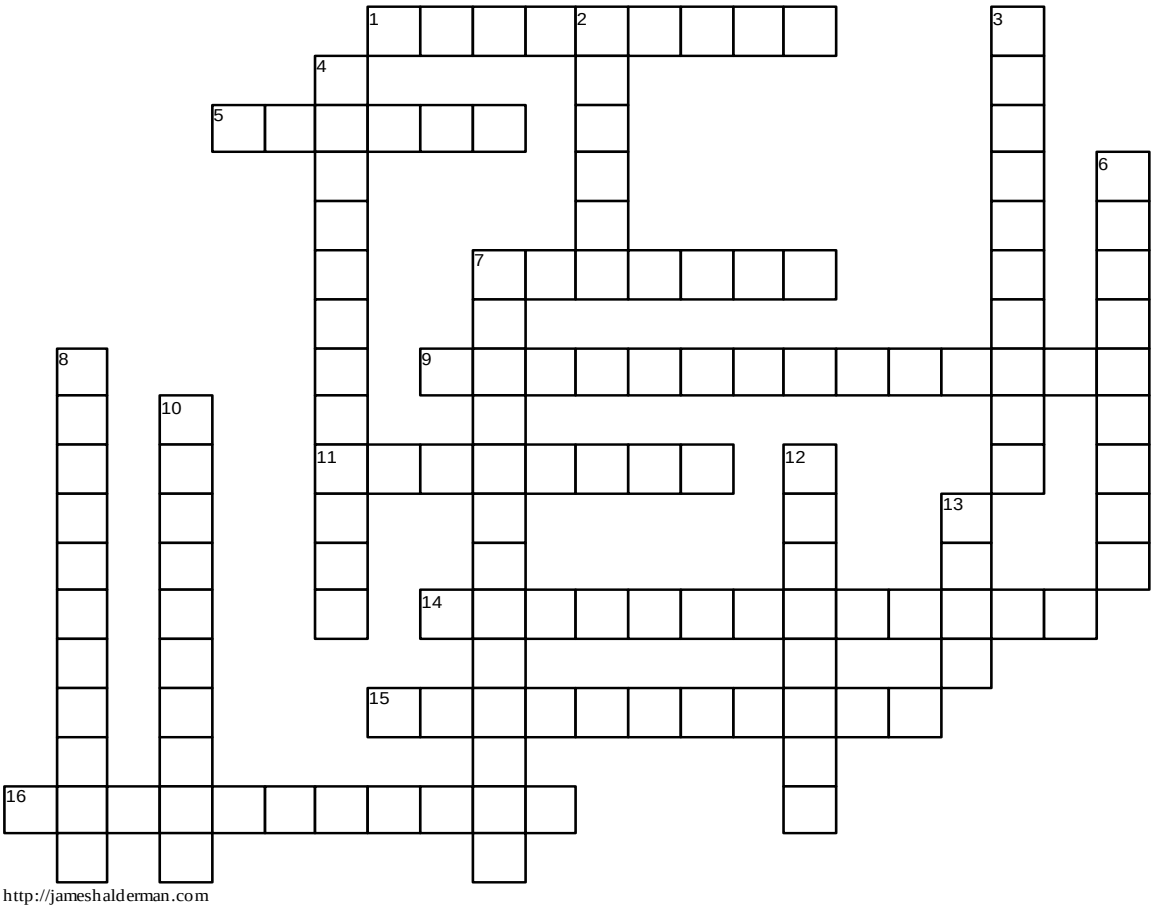
Braking Principles And Friction Materials

Chapter 94



ACROSS

1 Starting in 1964, brake linings have been using s standardized way to identify the brake lining materials, The ____ ____ follow the SAE Standard J866a.

5 The ability to do work is called _____.

7 Synthetic friction material are often called _____ in the American afermarket .

9 _____ ____ occurs when a brake drum overheats and expands away from the brake lining.

11 All brake pads and shoes manufactured after January 1, 2015, are required to have a ___ ____ icon indicating the level of compliance with state friction material content legislation.

14 _____ _____ is a fundamental form of mechanical energy. It is the energy of mass in motion.

15 Another term for brake pads that use synthetic fibers is called ___-_____ organic (NAO).

16 ___-_____ synthetic (NAS) is another term that may be used in referring to synthetic brake linings.

DOWN

2 _____ is a soft metal with very high thermal and electrical conductivity and is used in most brake lining/pads.

3 _____ ____ affects both drum and disc brakes and occurs when the friction material overheats to the point where its coefficient of friction drops off.

4 The term _____ refer to brake lining material that uses metal, rather than asbestos, in its formulation.

6 The loss of brake power is called _____ ____.

7 The amount of friction between two objects or surfaces is commonly expressed as a value called _____ __ friction.

8 Brake pads and linings that use synthetic material, such as aramid fibers, instead of steel are usually referred to as ___-_____.

10 Most vehicles have a forward _____ ____, which means that even when stopped, more than 50% of their weight is supported by the front wheels.

12 _____ is the term used to describe naturally occurring silicate minerals that consist of long fibers.

13 The transfer of energy form one physical system to another-especially the transfer of energy to an object through the application of force is called ____.