

PAMPHLETS ON BIOLOGY KOFOID COLLECTION (3234)

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 96 pages. Original publisher: Washington, DC : U. S. Dept. of Transportation, Federal Motor Carrier Safety Administration, Office of Analysis, Research and Technology, 2007 OCLC Number: (OCoLC)733568710 Subject: Hydrogen as fuel. Excerpt: . . . 1. 2 HYDROGEN USE AS A MOTOR FUEL There are several ways that hydrogen can be used as a motor fuel. It can be used to directly replace gasoline or diesel fuel in specially designed internal combustion engines (ICEs), or it can be used to supplement these typical fuels in existing engines. In either of these cases, the vehicle drive system will be identical to those used on most gasoline-powered or diesel-powered vehicles. The engine will drive the vehicles wheels through a transmission, drive shaft, and front or rear axle. Hydrogen can also be used as the fuel source for a fuel cell engine, in which case the vehicles drive system will be very different. A fuel cell directly creates electricity, which can be used to power an electric motor to drive the vehicles wheels. A fuel cell vehicle is, therefore, an electric vehicle, but one that creates its own electricity and does not need to be plugged in to recharge batteries. A small fuel cell can also be used to create electricity to directly power the auxiliary systems on a commercial truck (for example heating, air conditioning, and lighting in a sleeper berth), which are typically powered by the trucks main engine. Using such a fuel cell auxiliary power unit (APU) would allow the driver to shut off the trucks main diesel engine while resting, saving fuel and reducing pollution. Regardless of whether the hydrogen will be used in a fuel cell main engine, a fuel...



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