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Review of the 21st Century Truck Partnership, Second Report
Rapidly Solidified Neodymium-Iron-Boron Permanent Magnets
Vehicle Propulsion Systems □□□□□

Review of the 21st Century Truck

Partnership, Second Report

2012-07-04

in July 2010 the National Research Council (NRC) appointed the committee to review the 21st Century Truck Partnership Phase 2 to conduct an independent review of the 21st Century Truck Partnership (21CTP). The 21CTP is a cooperative research and development (R&D) partnership including four federal agencies: the U.S. Department of Energy (DOE), U.S. Department of Transportation (DOT), U.S. Department of Defense (DOD), and the U.S. Environmental Protection Agency (EPA), and 15 industrial partners. The purpose of this partnership is to reduce fuel consumption and emissions, increase heavy-duty vehicle safety, and support research, development, and demonstration to initiate commercially viable products and systems. This is the NRC's second report on the topic and it includes the committee's review of the partnership as a whole, its major areas of focus: 21CTP's management and priority setting, efficient operations, and the new SuperTruck program.

Rapidly Solidified Neodymium–Iron–Boron Permanent Magnets

2017-10-24

rapidly solidified neodymium iron boron permanent magnets details the basic properties of melt spun ndfeb materials and the entire manufacturing process for rapidly solidified ndfeb permanent magnets it covers the manufacturing process from the commercial production of the melt spun or rapidly solidified powder to the production and properties of both isotropic bonded nd and hot deformed anisotropic ndfeb magnets in addition the book discusses the development and history of bonded rare earth transition metal magnets and the discovery of the ndfeb compound also covering melt spun ndfeb alloys and detailing the magnetization process and spring exchange theory the book goes over the production of melt spinning development the operation of a melt spinner the processing of melt spun powder commercial grades of ndfeb magnetic powder and gas atomized ndfeb magnetic powders lastly the book touches on the major application and design advantages of bonded nd magnets features a unique perspective as the author

is not only the inventor of ndfeb magnetic powder but also played a key role in developing many of the technologies covered provides a comprehensive look at the history fundamental properties production processes design and applications of bonded ndfeb magnets includes discussion of the rare earth supply challenge politics and systems as it impacts bonded ndfeb magnets

Vehicle Propulsion Systems

2012-12-25

this text provides an introduction to the mathematical modeling and subsequent optimization of vehicle propulsion systems and their supervisory control algorithms automobiles are responsible for a substantial part of the world s consumption of primary energy mostly fossil liquid hydrocarbons and the reduction of the fuel consumption of these vehicles has become a top priority increasing concerns over fossil fuel consumption and the associated environmental impacts have motivated many groups in industry and academia to propose new propulsion systems and to explore new optimization methodologies this third edition has been prepared to include many of these developments in the third edition exercises

are included at the end of each chapter and the solutions are available on the web



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