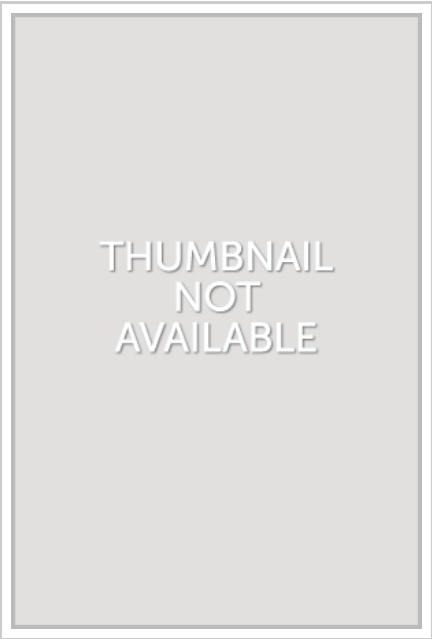

Brockhaus Konversations-Lexikon (5)

By Advanced Drivetrain Workshop 2010

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 32 pages. Original publisher: Golden, Colo. : U. S. Dept. of Energy, Energy Efficiency and Renewable Energy, Wind and Water Program, 2010 OCLC Number: (OCoLC)694743555 Subject: Wind turbines -- Technological innovations -- United States -- Congresses. Excerpt: . . . Table 4 below lists major areas of interest in permanent magnet generator research and development and the potential benefits that these areas of interest offer over the state-of-the-art in wind turbine drivetrains. Table 4. Benefits of Permanent Magnet Technology Improvements Area of Interest Description Benefits Improved magnetic materials could Reduced Capital Costs: lower weight Advanced Magnetic lead to increased energy densities, permanent magnets would result in Materials which would result in smaller lower weight generators, reducing up-generators and, consequently, lower tower weight. weight drivetrains. Materials Improved Reliability: relaxed air-gap improvements include bulk material constraints would decrease the property enhancement, nano-incidence of rotor stator impact, structured magnetic materials, and decreasing maintenance costs. flexible magnets that can be Increased Energy Capture: lower magnetized or demagnetized post-nacelle weights may make it cost installation. effective to deploy taller towers with larger rotors. Safety and Serviceability: magnets that are safer to handle during...

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