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## BROCKHAUS KONVERSATIONS-LEXIKON (5)



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Area of Interest	Description	Benefits
Improved magnetic materials	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 installation and maintenance would reduce the potential for accidents. Possible system design and topology Reduced Capital Costs: advanced System Design and improvements include: topologies could result in smaller Topology generators, reducing up-tower weight. Radial flux ( geared or direct drive ), transverse flux, Vernier designs, Improved Reliability: better designed magnet gearing and coreless and tolerance air-gaps would decrease armatures; the incidence of rotor stator impact, decreasing maintenance costs. Advanced air gap design to improve tolerances and reduce Increased Ener. . . This item ships from La Vergne, TN. Paperback.



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