

Southwest Research Institute is a leader in advanced power systems, including the design, analysis, prototype fabrication, and testing of turbomachinery such as gas turbines, compressors, pumps, wind turbines, and motors from kW-scale to utility-scale. With more than 50 years of experience assessing and improving power generation equipment, SwRI is also a leading ...

This paper presents an advanced metal detection system based on tunneling magnetoresistance (TMR) sensors array. To achieve the function of metal localization, the system is designed to contain 16 TMR sensors. ... The circuit board is located at the bottom of the excitation coil and powered by a DC power supply. The TMR sensors are mounted on ...

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Advanced high-temperature structural materials are expected to play an important role in realizing the aspirations related to the next-generation aerospace propulsion devices, thermal protection system of reusable launch vehicles and thermal/nuclear power reactors. Despite considerable amount of research conducted for developing new and more efficient ...

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Modern research has made the search for high-performance, sustainable, and efficient energy storage technologies a main focus, especially in light of the growing environmental and energy-demanding issues. This review paper focuses on the pivotal role of biomass-derived carbon (BDC) materials in the development of high-performance metal-ion hybrid ...

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Advanced metal and power systems

manufacture parts that require levels of intricacy that traditional machining cannot achieve. With our wire EDM services we can easily create parts with sharp inside corners and thin walls without the need for custom tooling or secondary operations.

Advanced cooling plays an increasing role in many modern chips, devices and power systems. However, the currently available strategies for the thermal management would often encounter technical ...

Bulk Power Shelves and Systems; Front End PSUs AC-Input; Front End PSUs DC-Input; ... The AMS provides advanced arc management, allowing maximum power delivery with faster recovery to process. Extreme fast recovery also means extremely low energy delivered through arcs, preventing substrate damage. ... technology -- customer pre-sets for metal ...

Large-scale lithium-ion battery systems are used to stockpile new clean energy sources, aiming to balance the load on the grid and provide backup power [5]. Meanwhile, its long service life, high energy density, and high operating voltage have been widely used in mobile communications, new energy vehicles, aerospace, and other fields [[6], [7 ...

Power Electronics: Typical Applications of Insulated Metal Substrates in Power Electronics. ... The automotive sector is adopting more electronic systems, including advanced driver assistance systems (ADAS), electric vehicle (EV) components, and autonomous driving technologies. IMS's ability to withstand harsh automotive environments while ...

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pressure and pulsed electrical current in a vacuum or protective atmosphere. Many scholars and researchers have realized the importance of the SPS due to ...

Interest in advanced nuclear concepts using liquid metal coolant has increased in the past few years. Liquid metal coolants have been proposed for the next generation of small-sized nuclear reactors, which offer exceptional safety and reliability, sustainability, nonproliferation, and economic competitiveness. Heavy liquid metal coolants are investigated for advanced fast ...

A steam turbine used to provide electric power. An electric power system is a network of electrical components deployed to supply, transfer, and use electric power. An example of a power system is the electrical grid that provides power to homes and industries within an extended area. The electrical grid can be broadly divided into the generators that supply the power, the ...

Phase change materials (PCMs) can enhance the performance of energy systems by time shifting or reducing peak thermal loads. The effectiveness of a PCM is defined by its energy and power density--the total available storage capacity (kWh m^{-3}) and how fast it can be accessed (kW m^{-3}). These are influenced by both material properties as well as geometry of the energy ...

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Advanced conductors offer advantageous properties over pure metal conductors, such as a lighter weight, a higher current-carrying capacity, or survivability in mechanically or ...

In the past, metal-oxygen power systems were all aqueous systems; the most employed system was Zn-air cell. This system ($\text{Zn} + \text{O}_2 \rightarrow \text{ZnO}$) has been investigated for many years, thanks to its high specific capacity, as compared with cells based on common battery chemistries; in course of these studies the fact that the kinetics of the cell ...

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and electrochemically active electrolytes in each system. Due to the similarity between metal-air batteries with flow and static configurations, we will consult the representative critical works in static metal-air systems that can provide guidance to the future research and development of the advanced flow technologies.

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