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**Abstract:** The proceedings contain 58 papers. The topics discussed include: design of memristor-based XOR logic gate and half adder; a new type of transverse flux permanent magnet rim motor and its modeling analysis; on magnetic-coupled matrix rectifier applied to accelerator power supply; a humidity compensation method for a temperature and humidity sensor; research and design of low-power, high-performance processor based on RISC-V instruction set architecture; research on the reliability of micro LED high-density solder joints under thermal cycling conditions; apple sugar content non-destructive detection device based on near-infrared multi-characteristic wavelength; CFAR detector based on the identification of sea clutter distribution characteristics; and design and implementation of a direct memory access controller-based on microcontroller unit.

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