

470. Title:Recent breakthroughs in microwave photonics

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Abstract:We present a brief review of recent accomplishments in the field of Microwave Photonics (MWP). Recent research across a broad range of MWP applications is summarized, including photonic generation of microwave, millimeter, and Terahertz waves; broadband optical beamforming for phased array antennas; tunable, reconfigurable, and adaptive microwave photonic filtering, as well as the application of slow and fast light effects to the implementation of tunable microwave phase shifting and true time delay operations.