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Development of UWB High-Gain Vivaldi Array Antenna for Microwave Imaging of Construction Materials and Composite Structure

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Message from the Guest Editors

The rapid development of microwave non-destructive testing and evaluation (NDT&E) of materials and structures has increased the demand for improved microwave measurement methods and techniques. The use of ultra-wideband (UWB) measurement systems is of particular interest for civil engineering applications as it can detect defects and damages in construction materials and composite structures using imaging methods and techniques. The development of UWB high-gain Vivaldi array antennas for these systems with proper dimensions and high performance is one of the major challenges. The success of applying the UWB microwave technique is dependent on the operating frequency utilized for specified material under test.

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Message from the Editor-in-Chief

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