Special Issue

Micromachined Devices for Microwave Signal Processing

Message from the Guest Editors

Microsystem technology designed for high-frequency applications has become a well-established research domain focusing on many microwave-to-millimeter wave devices and subsystems. Applications encompass ground and space architectures for signal routing, including (i) phase shifters in RADAR systems, radio-link communications, satellite reconfiguration, and redundancy logic by RF MEMS switches; (ii) membrane-supported sensing; and (iii) material science probes. Over the past two decades, micromachining techniques have contributed to technological solutions for manufacturing different types of high-frequency devices. The main advantage of using micromachining is that it is intended to produce structures suitable for high-performance microwave-to-millimeter wave signal processing. For this Special Issue, we welcome research papers, communications, and review article contributions describing the state-of-the-art design, technology, and applications for high-frequency microsystems developed by micromachining techniques.

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Editor-in-Chief

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