Abstracts

Introduction to the Special Issue on Microwave and Millimeter-Wave Photonics

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Welcome to this third Joint Special Issue of the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES and JOURNAL OF LIGHTWAVE TECHNOLOGY devoted to microwave and millimeter-wave photonics. Microwave photonics can be defined as the study of photonic devices operating at microwave frequencies and their applications in microwave systems. From pioneering experiments in the late 1970's, the field has expanded to produce a number of applications of commercial importance. These include the remoting of antennas for cellular and micro-cellular radio using analog fiber links, the distribution of cable-television signals, signal processing using optical techniques for phased-array antenna beam forming, and opto-electronic probing of microwave and millimeter-wave monolithic integrated circuits.

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