



## Editor Message

Dear members and readers, this is the first issue of the *Microwave Review* journal in 2015.

In the first paper *Reduced-Size Microstrip Antenna for Wi-MAX and WLAN* published in this issue, the authors Kaushik Mandal from Academy of Technology, West Bengal, India, and Partha Pratim Sarkar from the University of Kalyani, West Bengal, India propose a dual frequency, compact single probe-feed rectangular microstrip patch antenna with reduced size for Wi-MAX and WLAN applications.

Detailed design methodology with fabrication process steps for development of  $2 \times 2$  micromachined patch antenna array is outlined in the second paper *Frequency Agile  $2 \times 2$  Micromachined Antenna Array* by Ashish Kumar Chauhan, Ayan Karmakar and Kamaljeet Singh from Semi-Conductor Laboratory, Punjab, India. A new concept of composite (Silicon-Glass) substrate synthesizing along with micromachined structure has been presented to shift the operating frequency band of the antenna.

In their paper *Impact of Array Length on Power Radiated in Non-uniformly Spaced Arrays with Low Side Lobes*, Appasani Bhargav and Nisha Gupta develop an empirical formula showing a relationship between the normalized radiated power and the array length for a non-uniformly spaced linear antenna array with low side lobe level. Using the Genetic Algorithm, several non-uniformly spaced arrays are created for low side lobe levels and for various array lengths.

*Novel Compact Dual Bandstop Filter Using Radial Stub* is selected as the fourth paper for this issue. It is given by Prashant Kumar Singh and Anjini Kumar Tiwary from Birla Institute of Technology, Jharkhand, India. A novel miniaturized dual bandstop filter is proposed and compactness is achieved by embedding a radial stub within slotted radial stub.

Starting with the design and biasing conditions to enable cross-well chaotic behaviour in a nonlinear MEMS resonator, the fifth paper *Fuzzy Control for Chaotic Response Improvement in MEMS Resonators* presents for the first time a control method based on fuzzy logic to maximize such a chaotic response, providing a design way for its potential use in secure communication applications. The authors Joan Barceló and Jaume Verd are with the University of Balearic Islands, Palma, Spain, and Zlatica Marinković and Vera Marković are with the University of Niš, Serbia.

At the end of this issue you can find information about 2015/2016 IEEE MTT-S Education Committee Scholarship/Fellowship programs.

I would like to take this opportunity to thank all the reviewers without whose help it would have been impossible to select the papers and to publish the journal.

**Dr. Biljana Stošić**

University of Niš

Faculty of Electronic Engineering

biljana.stosic@elfak.ni.ac.rs