



Editor-in-Chief: A Message

Dear members and readers,

The first issue in 2018, July issue of the *Microwave Review* journal contains four research papers, as well as report of WiE Affinity Group of IEEE Serbia and Montenegro Section.

This July issue is related to papers selected for publication after being reviewed by qualified anonymous referees.

In the paper entitled *Development of ZOR using Via-less CRLH-TL* author proposed a compact via-less composite right/left handed transmission line (CRLH-TL) based design and development of novel compact zeroth-order resonator (ZOR) excited by coplanar waveguide (CPW) feed line. The absence of via reduces the fabrication steps and minimizes the overall production cost. Because of the small size, low complexity and good performance, the proposed ZOR may find the potential application in wireless communication systems. The author is Dileep Kumar Upadhyay from India.

Low Side-lobe Beam-pattern Synthesis: Thinning of a Large Concentric Circular Antenna Array Using Wavelet Mutation Based Seeker Optimization Algorithm is the title of the paper written by group of authors from India: Rajesh Bera, Durbadal Mandal, Rajib Kar, and Sakti P. Ghoshal. This paper illustrates Particle Swarm Optimization (PSO), Differential Evolution (DE), a novel Seeker Optimization Algorithm (SOA) and its enhanced version, SOAWM (Seeker Optimization Algorithm with Wavelet Mutation) for thinning of 9-ring Concentric Circular Antenna Arrays (CCAA) of isotropic elements and non-isotropic elements as well. SOAWM proves its better-searching ability compared with PSO, DE and SOA for the design of thinned CCAA in terms of the best converged solution and efficient SLL (Side Lobe Level) reduction.

The objective of the paper *Microwave Field Distribution in Multi Layer Structures: A Bio-Engineering Molecular Model* is to develop an original Bio-Engineering Reverse and Dynamic Molecular Model (BERD MM) for intrinsic control and prediction toward optimization of thermo-dielectrically behavior in Multi Layers Structures (MLS) for energetically performances and safety microwave processing. The thermo-dielectrically behavior prediction with bio-markers for tailored end-functionalities controlled with techno-markers opens the possibility to an accurate intrinsic control of thermal transformation in situ and accurate parameter/procedures selection for a tailored-made end-product. The author is Iuliana Vintilă from Romania.

The last paper selected for publication is related to electromagnetic induction as characteristic of generating heat directly within the material being heated. This feature has many advantages over conventional methods of heating more standard, including reduced heating times and high yields, or the ability to heat very locally. The high power densities in play can achieve speeds of very rapid heating temperatures and heating time, the magnetic flux and frequency are the parameters that govern this process. Recent advances in technology of semiconductors have transformed the induction heating method in a remarkably simple and profitable applications for bonding, processing, heating or test materials. The paper entitled *Effect of Heating of Steel Tubes by Induction at High Frequency* is written by group of authors M. T. Hannachi, B. Dahache, and E. Guelloudje from Algeria.

Dr. Biljana Stošić, chair of Women in Engineering (WiE) Affinity Group of IEEE Serbia and Montenegro Section, gives a report about back and ahead look of Serbia & Montenegro WiE.

All involved people in this journal: Editor-in-Chief, Associate Editor and reviewers contribute as volunteers. Selection of submitted papers for publication in journal is a very hard work. There may be a phase of high load where reviewers cannot find time to work on papers, and because of that a processing time make take several months.

I would like to thank all valued anonymous reviewers who were able to engage with this journal in 2018, and to show my appreciation for the time and effort they have spent on evaluating manuscripts submitted to Microwave Review journal. Their role as a reviewer is a very important contribution to the success of the journal.

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