



Editor's Note

In recent years, there has been an increase in public concern about biological effects and possible health hazards resulting from exposure to electromagnetic waves produced by today's wireless communication systems. This issue of Microwave Review presents four papers focused on that topic. In addition, there are three papers with other topics in the area of wireless communications.

Most of the papers presented here are invited ones. The authors of these papers have been invited to contribute to this issue, either with original papers not published previously or with the modified versions of their conference/workshop papers presented earlier.

Recently, an international, IEEE sponsored conference in the field of telecommunications, TELSIS 2005, was held successfully in Nis, Serbia and Montenegro. In this issue, there are a number of papers presented at that conference and specially selected for additional publishing in Microwave Review.

In the first invited paper written by André Vander Vorst from Belgium, who has been contributing significantly in the field of biological effects and medical application of RF/microwaves for years, an overview of microthermal and isothermal biological effects under microwave exposure is presented. Igor Belyaev from Sweden is the author of the next invited paper, where a comprehensive study of diverse non-thermal biological effects of microwaves and complex dependence of these effects on various physical and biological parameters is given. The third paper by T.M.Benson et al. from United Kingdom was previously presented as an invited paper at TELSIS 2005 and it focuses on the modelling of electromagnetic field - tissue interaction. The fourth paper by Dejan Krstic et al. from Serbia and Montenegro was also presented at TELSIS conference. Some results of experimental exposition of mice by mobile phones are presented there.

After these four papers whose common theme comprises the biological effects of wireless systems, the following paper by Sergey Loyka from Canada gives a study of the limitations imposed by the laws of electromagnetism on MIMO channel capacity. This paper was previously presented at Joint COST 273/284 Workshop on Antennas and Related System Aspects in Wireless Communications, Sweden, June 2004. In the sixth paper by P. Jovanovic et al. from Serbia and Montenegro, which was presented at TELSIS 2005, a software for interference consideration in a network of digital microwave links is described. The seventh paper by Liliana Díaz Olavarrieta comes from Mexico. An overview of most important topics in the field of wireless communication technologies is given there. This paper is a modified version of the paper entitled "Wireless communications: a bird's eye view of an emerging technology", presented at ISCIT 2004, Japan.

The scientific papers are followed with a report on Chair Chapter Meeting (CCM) held in Paris in October 2005, during the European Microwave Week.

A report on the conference TELSIS 2005 illustrated by photos is presented at the end of this issue.

I would like to thank very much to the authors for contributing to this issue of Microwave Review. I use this opportunity to invite other prospective authors to send their manuscripts for publishing in some of the next issues. We sincerely hope the journal will bring the high quality contents and interesting themes to the readers in the future as well.

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