
FOREWORD

Special Section on Microwave and Millimeter-Wave Technologies

It is my great honor and pleasure to announce the publication of the Special Section on Microwave and Millimeter-wave Technology.

Microwave and millimeter-wave technology plays a crucial role as a means of communication in modern society. The 5th generation mobile communication system (5G) that utilizes microwave and quasi-millimeter wave bands has been launched, and fundamental research on 6G has also been started. The microwave and millimeter-wave technology includes fields in wireless power transfer, automotive radars, and microwave heating for chemical/medical applications as well as fields in traditional wireless/wireline communications. The purpose of this Special Section is to deliver the latest technical information to active researchers/engineers and consequently contribute to the sustainable growth of these fields.

On behalf of the Editorial Committee, I would like to thank all authors for submitting their recent work to this Special Section. After careful reviews by the Editorial Committee, three papers have been accepted for publication. The Special Section includes three invited papers on microwave technologies related to microwave heating and medical sensing, where the three papers were authored by i) Prof. Toshio Ishizaki and Dr. Takayuki Matsumuro, ii) Dr. Hikaru Ikeda, and Prof. Yasushi Itoh, and iii) Prof. Futoshi Kuroki, Mr. Shouta Sora, and Mr. Kousei Kumahara.

Finally, I would like to express my gratitude to the Editorial Committee members for editing this Special Section and to all anonymous reviewers for their devoted review. My special thanks also go to all members of the IEICE publication department.

The members of the Editorial Committee of this Special Section are:

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Hiroshi Okazaki (*Senior Member*) received the B.E. and M.E. degrees from Osaka University, Osaka, Japan, in 1988 and 1990, respectively, and Dr. Eng. degree from Tokyo Institute of Technology, Tokyo, Japan, in 2011. In 1990, Dr. Okazaki joined NTT Radio Communication Laboratories, Kanagawa, Japan, where he was engaged in research on RF circuits and equipment for several kinds of wireless communication systems. During 2001–2003, he was with NTT Electronics Corporation (NEL), Tokyo, Japan, where he was engaged in development of electronic devices for photonic communication systems. Since 2003, he has been with NTT DOCOMO, Inc., and involved in research on RF technologies for mobile communication systems. He was the recipient of the 1997 Young Engineer Award presented by the IEICE, the Japan Microwave Prize at the 1998 Asia-Pacific Microwave Conference (APMC), the 2011 IEICE Achievement Award, and the 2012 IEICE Best Paper Award. He is a senior member of the IEEE and the IEICE, and a member of EuMA.

