FOREWORD

Special Section on Recent Progress in Microwave and Millimeter-Wave Technologies

Recently, the importance of wireless technologies using microwave and millimeter-wave is widely recognized. Modern IT society is activated by using wireless equipment, such as cellular phones, smart phones, and so on. Many electronic devices are utilized to make the systems very convenient and high functional.

In order to accelerate the growth of the technologies, Korea-Japan MicroWave conference (KJMW2011) has been held in Fukuoka, Japan on November 2011. It was the Ten-year celebration of KJMW. 67 papers were presented and 123 microwave engineers, including 45 student members attended to discuss the microwave and millimeter-wave technologies, and to exchange their friendship. In the conference, it has been revealed that emerging technologies from materials to systems would open up new vistas of the future IT society.

This special section is planned to contribute for rapid spread of recent progress in microwave and millimeter-wave technologies. Twenty-three regular and brief papers have been submitted and ten regular papers and two brief papers have been accepted for publication through the regular reviewing process by the Editorial Committee. The topics of these papers cover electromagnetic theories, passive and active devices, and system applications. The Editorial Committee has invited papers by Professor Hyo Joon Eom and Professor Masayoshi Aikawa, who are the authorities in this technical field in Korea and Japan.

I would like express my sincere gratitude to all authors of the submitted papers for their contributions, to reviewers for their devoted efforts in their reviewing process, and to the Editorial Committee members for their volunteer services in editing this section. Finally, special thanks are addressed to the members of the IEICE publication department.

Special Section Editorial Committee
Secretaries: Yasushi Horii (Kansai Univ.), Tadashi Kawai (Univ. of Hyogo)
Guest Associate Editors: Yo Yamaguchi (NTT), Kensuke Okubo (Okayama Pref. Univ.), Masahiro Hanazawa (ATR Inst. Intl.), Jongsuck Bae (Nagoya Inst. of Tech.), Toshihiko Yoshimasu (Waseda Univ.), Tomohiko Mitani (Kyoto Univ.), Tetsuya Ueda (Kyoto Inst. of Tech.), Eisuke Nishiyama (Saga Univ.), Minoru Fujishima (Hiroshima Univ.), Mayumi Matsunaga (Ehime Univ.), Takeshi Fukusako (Kumamoto Univ.)

Toshio Ishizaki, Guest Editor

Toshio Ishizaki (Senior Member) was born in Kagawa, Japan, on May 24, 1958. He received the B.S., M.S., and doctorate of engineering degrees from Kyoto University, Kyoto, Japan, in 1981, 1983, and 1998, respectively. In 1983, he joined Panasonic Corporation (former Matsushita Electric Industrial Company Ltd.), Osaka, Japan, where he has been involved in research and development on microwave circuitry and components, especially on microwave dielectric filters and power amplifiers for cellular radio communications. From 2004 to 2007, he worked for Matsushita Electronic Components Company Ltd., which was the affiliated company, as a director of the R&D laboratory. In 2010, he became a professor of Ryukoku University, which is his present title. He received the 1998 OHM Technology Award from the Promotion Foundation for Electrical Science and Engineering, Japan. He also received the 2003 best paper award from IEEJ, Japan. His current research subjects are in the area of wireless power transfer systems, microwave meta-material devices, LTCC filters, and high-efficiency power amplifiers. Dr. Ishizaki is a senior member of IEEE. He is now serving IEEE MTT-S Kansai Chapter as a vice chair.