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## FOREWORD

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### Special Section on Microwave and Millimeter-Wave Technology

The 2010 Asia-Pacific Microwave Conference (APMC2010) has been held successfully in Yokohama from 7–10 December, 2010. We have received an impressive number (793) of papers from 41 countries, i.e., Taiwan (157), Japan (144), and Republic of Korea (93) among others. This was the highest number of submissions ever in APMC's history in Japan.

This Special Section is mainly based upon papers presented at the APMC2010, and also includes other contributed papers. The section was planned to cover and publish the advanced and latest achievements in microwave and millimeter-wave technologies.

The editorial board committee was composed of 27 members listed below.

The committee has selected 22 papers for publication out of 43 submissions from 12 countries, with assistance from about 80 expert reviewers.

We have divided the papers into four general subject headings; (i) Active Devices and Circuits, (ii) Passive Devices and Circuits, (iii) Microwave and Millimeter-Wave Antennas, and (iv) Measurement Techniques. We believe that this Special Section includes a variety of research fields in microwave and millimeter-wave engineering investigated around the world.

Special thanks are due to the large team of reviewers who undertook the detailed examination of the submitted manuscripts. I would like to express my sincere appreciation to the editorial board members for their dedication to make this Special Section more attractive. Lastly let me express my special thanks to Prof. I. Toyoda for his remarkable efforts as secretary.

Guest Editors: Kazukiyo Joshin (Fujitsu Lab.), Ichihiko Toyoda (Saga Univ.)

Guest Associate Editors: Chun-Ping Chen (Kanagawa Univ.), Qiang Chen (Tohoku Univ.), Jiro Hirokawa (Tokyo Inst. of Technology), Kazuhiko Honjo (Univ. of Electro-Communications), Toshio Ishizaki (Ryukoku Univ.), Kenji Itoh (Kanazawa Inst. of Technology), Nobuyuki Itoh (Okayama Prefectural Univ.), Tadashi Kawai (Univ. of Hyogo), Naoki Kita (NTT), Yoshinori Kogami (Utsunomiya Univ.), Zhewang Ma (Saitama Univ.), Ken-ichi Maruhashi (NEC), Masashi Nakatsugawa (NTT), Yoshio Nikawa (Kokushikan Univ.), Toshihiro Nomoto (Tohoku Inst. of Technology), Kensuke Okubo (Okayama Prefectural Univ.), Atsushi Sanada (Yamaguchi Univ.), Noriharu Suematsu (Tohoku Univ.), Fumiyasu Suginosita (NHK), Yoichiro Takayama (Univ. of Electro-Communications), Tsuneo Tokumitsu (Sumitomo Electric Industries), Hiromitsu Uchida (Mitsubishi Electric), Ryo Yamaguchi (NTT DOCOMO), Yo Yamaguchi (NTT)

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Masahiro Muraguchi, Guest Editor-in-Chief

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**Masahiro Muraguchi** (*Member*) received the Ph.D. degrees in physical electronics engineering from the Tokyo Institute of Technology in 1983. He joined the NTT Atsugi Electrical Communications Laboratories, Nippon Telegraph and Telephone Corporation, in 1983, where he was involved in the design and fabrication of GaAs MMICs. From 1987 to 1999, he was with NTT Wireless Systems Laboratories where he engaged in research and development work on MMICs for wireless communication systems. From 1999 to 2002, he was engaged in development of 40 Gb/s InP-HEMT ICs for optical communication systems as an R&D Project Leader at NTT Electronics Corporation. From 2002 to 2005, he was the Executive Manager of High-Speed Devices and Technology Laboratory, NTT Photonics Laboratories. In April 2005, he joined the Electrical Engineering Department, Tokyo University of Science where he is currently a Professor. Dr. Muraguchi is a member of the IEEE. He received the 1994 Ichimura Award for outstanding contribution to MMIC technology. He chaired the APMC National Committee in 2009–2011 and also the Technical Program Committee of the APMC2010.

