Acknowledgment

The authors wish to express their gratitude to Dr. N. Araki of the Department of Mechanical Engineering, Shizuoka University, for his assistance. Thanks are also due to M. Yoshioka and A. Carrick for their assistance in preparing the manuscript.

References


Takehiko Tomikawa is currently working toward the PhD degree in applied electronics at Shizuoka University, Hamamatsu, Japan. He holds the BS degree in electronic communication engineering from Tokyo Electrical Engineering College and the MS degree in information science from Shizuoka University. Tomikawa is a member of the Institute of Electronics and Communication Engineers, the Institute of Electrical Engineers, and the Institute of Image Electronics Engineers, all of Japan.

Kinji Matsumoto is a professor in the Department of Information Science, Shizuoka University. He has done work in antenna and electromagnetic wave engineering; his current research interests include recognition of printed kanji characters, recognition of handwritten Hebrew characters, and the application of ink jet technology to the printing of pictures and of kanji characters.

The author of four books and 20 scientific papers, Matsumoto received the BS and PhD degrees in electrical engineering from Tokyo University in 1943 and 1956, respectively. He was an engineering officer in the Japanese Navy from 1943 to 1945, holding the ranks of lieutenant junior grade and captain. He is a member of the Institute of Electronics and Communication Engineers of Japan and the Institute of Electrical Engineers of Japan.

The authors' address is Dept. of Applied Electronics Engineering, Graduate School of Electronic Science and Technology, Shizuoka University, Hamamatsu-shi, 432, Japan.