

# Abstracts

## Guest Editorial (May 1990 [T-MTT])

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*P.R. Herczfeld. "Guest Editorial (May 1990 [T-MTT])." 1990 Transactions on Microwave Theory and Techniques 38.5 (May 1990 [T-MTT] (Special Issue on Applications of Lightwave Technology to Microwave Devices, Circuits, and Systems)): 465-466.*

The most dramatic advances today in electronics are in very high speed (picosecond) circuits and in photonics. The extensive effort in monolithic microwave integrated circuits (MMIC's) will have a profound effect on high-speed, high-frequency analog and digital components and systems. Rapid progress in photonics and associated lightwave technologies, such as fiber optics, image processing, and high-speed parallel computing, are already making a significant impact in communications, surveillance, computer networking, office and factory automation, and medicine. The interface between these two major areas, lightwave and microwave technologies, is therefore a growing area of interest. Consequently, this special joint issue of the IEEE Transactions on Microwave Theory and Techniques and the Journal of Lightwave Technology is devoted to Applications of Lightwave Technology to Microwave Devices, Circuits, and Systems.

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