5th edition of the “ Journées Nationales Microondes ”

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5th edition of the « Journées Nationales Microondes »

Editorial

The fifth edition of the « Journées Nationales Microondes », held in Nice June 22-24, 1987, attracted some 400 microwave scientists and engineers. This meeting provided an opportunity for informal contacts and fruitful discussions among the participants from diverse horizons: private R & D, universities and engineering schools, and French and European research organizations (CNRS, CNES, CNET, DRET...). Moreover, it offered a comprehensive survey of microwave research under way in France, emphasizing the dynamism of the various teams involved, and the extremely interesting results obtained. Lastly, these discussions bore out the complementarity of research efforts in different areas of microwaves, and the increasing interaction among them. From device physics to millimeter wave radiometry for atmospheric studies, there is a distinct continuity and an ever-growing need for strong ties among these developments.

This special issue features a number of noteworthy papers presented at the « Journées ». Certain of the authors solicited by the Technical Committee agreed to have their papers published in this issue.

The topics proposed are highly representative of the research work going on today, and the reader will readily note the complementarity and continuity linking these topics. For instance, modeling of physical and electric devices is essential not only for the design and optimization of new devices, but also for enhancing the performance of integrated or hybrid active circuits. By the same token, technological advances, by lowering costs and improving performances, open the way to new microwave applications in an expanding market context. Reciprocally, new applications directed toward widespread consumption or the growing use of microwaves in technological processes, spur the development of novel devices and components. These different aspects are clearly underlined in the papers published in this special issue.

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