

## FOREWORD

The Department of Electronic Devices, Technical University of Budapest, held a Microelectronics Seminar between October 10–13, 1988, attended by lecturers and researchers of foreign universities which have relations with the organizing department.<sup>1</sup> 20 papers were given during the Seminar. The main topics were as follows:

1. Computer methods (modelling and simulation of semiconductor devices and structures, computer aided design of integrated circuits)
2. Semiconductor technology (new process, material qualification)
3. Semiconductor sensors (chemosensors, gas sensors)
4. Semiconductor physics (including new devices)

The papers gave account of results achieved in particular fields. During the discussions following the lectures the scientific problems connected with the existing cooperations have been discussed and new possibilities for cooperation have been settled, too.

A special program of the Seminar was the session in memory of Péter Iván Valkó, held jointly with the Telecommunication Scientific Committee, during which the participants commented the death of Prof. Valkó, who was the founder and first leader of the Department of Electronic Devices. On the Commemoration Session talks were given by

- the present Head of the Dept. of Electronic Devices, Prof. Kálmán Tarnay, representing the Department,
- Prof. Möschwitzer and Dr. Müller, representing TU Dresden, where Prof. Valkó had been a Honorary Doctor,
- Prof. Dr. Mészáros, representing TUNGSRAM, in the famous laboratory of which Prof. Valkó had started his career.

Selected papers given at the Microelectronics Seminar are published in this volume of Periodica Polytechnica.



Prof. dr. h.c. dr. Kálmán TARNAY .

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<sup>1</sup>There were participants from the following universities and institutes: TU Dresden, TH Ilmenau, Univ. Linköping, Univ. Ljubljana, Power Eng. Inst. Moscow, TU München, Univ. Novi Sad, Tesla, Prague, TU Prague, IMI Sofia, TU Tallinn, Univ. Uppsala, TU Warsaw, TU Wien.