

# ABOUT THE ACTIVITY OF THE DEPARTMENT OF PROCESS CONTROL OF THE TECHNICAL UNIVERSITY BUDAPEST

By

Prof. Dr. A. FRIGYES

Head of the Department

The Department of Process Control was established 13 years ago at the Faculty of Electrical Engineering of the Polytechnical University Budapest.

It had the task to deliver lectures and organize laboratory work for groups of those students of electrical engineering who intended to specialize in measurement and control engineering. In the beginning the main subjects of the activity of the Department were constituted by control theory, automatic process control and process instrumentation.

In the second half of the sixties computing systems got an ever increasing role in process control and it was at that time that the field of activity of the Department was extended in the direction of computer science. Since then the Department has been giving lectures, in addition to the topics mentioned, on the design of logical networks, on digital computing systems, as well as on computer control. The activity covers both the hardware and the software aspects and problems. The lectures and the laboratory practices deal with methods and solutions both of systems and of device design.

In the above topics the Department carries on research and development work. This volume presents some remarkable results of this activity.

The academic staff has about 40 members. The number of the subjects lectured on amounts to 11 in the fulltime courses, with lectures of similar topics in the evening and correspondence courses.

Some of the courses are attended by 80 to 100 students. About 40 of them take all the 11 subjects. These latter receive the subjects of their diploma theses from the Department and elaborate them under its supervision.

The Faculty of Electrical Engineering offers postgraduate training organized in various fields and by different methods to engineers having the degree of M. Sc. (Eng.). A form of the postgraduate training is an intensive fulltime two-year course based principally on individual work. Students with good abilities are admitted to this course after a special entrance examination. The Department has 3 to 5 such postgraduate students every year. There are several specialized postgraduate evening courses of similarly 2 years duration with 20 to 30 participants at each course. The staff of the Department takes part also in this form of training by offering lectures on special topics and organizing laboratory work.