

Introduction

Department of Process Control leads at University of Science and Technology researches in the wide area of the control engineering. In this area scientists from the Department works also on implementation of the Control theory to the materials processing especially at the field of putting an influence on materials properties to its better use in manufacturing processes. Instead of using principles of control theory for materials some of researchers use phenomena arising in the materials for control purposes. In this topic most considerations are focused on group of "Smart materials" ie. Shape Memory Alloys (SMA) or piezoelectrics.