Experiments with Microcontrollers

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I.K. International Publishing House Pvt. Ltd., 2012. Paperback. Book Condition: New. 18cm x 24cm. This book addresses the experimental needs of the students/ researchers/teachers of various disciplines in science, engineering, and technology on microcontrollers at the graduate and post-graduate level. One of the most widely produced and used microcontrollers in the world is the 8051 and is the most popular to study. Hence, the Intel 8051/89C51 microcontroller is chosen to design the experiments/projects. The basic knowledge of 8051 microcontroller viz., architecture and its instruction set required to understand the experiments is given in the book. This book is organized into three parts. Part I deals with the software experiments - addition, subtraction, multiplication, code conversion etc. All the software programs are written in assembly language. Part II describes the hardware experiments. Some of the hardware experiments are designed with microcontroller kits and many are discussed with 89C51 microcontroller alone. Every experiment is written in such way that an experimenter need not require additional information to perform the experiment. In most of the experiments both assembly language and embedded C programs are given. Part III deals with the complete projects. These projects are related to the applications of microcontroller either for...

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