Introduction to 6800/6802 Microprocessor Systems: Hardware, Software and Experimentation

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Introduction to 6800/6802 Microprocessor Systems: Hardware, Software and Experimentation introduces the reader to the features, characteristics, operation, and applications of the 6800/6802 microprocessor and associated family of devices. Many worked examples are included to illustrate the theoretical and practical aspects of the 6800/6802 microprocessor.

Comprised of six chapters, this book begins by presenting several aspects of digital systems before introducing the concepts of fetching and execution of a microprocessor instruction. Details and descriptions of hardware elements (MPU, RAM, ROM, PIA, etc.) necessary for the design and implementation of dedicated systems are also considered. Subsequent chapters focus on how the 6800/6802 microprocessor can be programmed at the machine-code level and by assembler programming techniques; the principles involved in interfacing the MPU system to peripheral equipment; practical aspects of parallel and serial data transfer techniques using the PIA and ACIA, respectively; hardware and software features of the Motorola MEK6802D5E evaluation system. The book concludes by discussing details of 12 investigations that may be undertaken using the MEK6802D5E evaluation system.

This monograph is intended for students, technicians, scientists, and engineers.

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