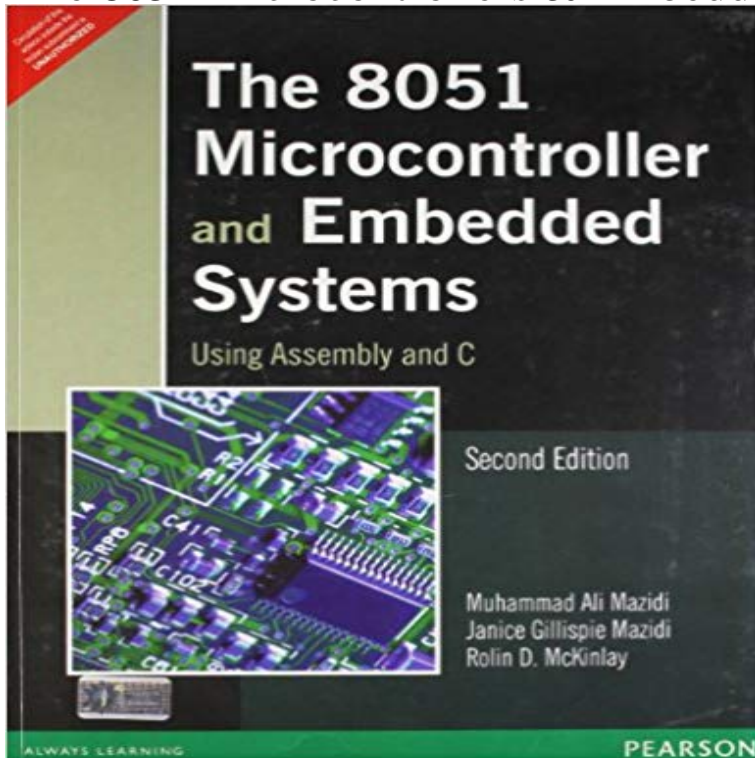


# The 8051 Microcontrollers & Embedded Systems



The 8051 microcontroller and embedded systems using assembly and c, 2/e is a powerful book that focuses on the 8051 microcontroller. The readers of this book are provided with a detailed explanation of the software and hardware specifications of this microcontroller. This microcontroller is considered to be the most popular microprocessor, in terms of usage and production. Owing to its immense popularity, it is being produced by more than fifty companies. The content of this book has been categorized into seventeen chapters, along with eight appendices. The first six chapters of this book provide you with all that you need to know on the basic architecture of this microcontroller, using assembly languages. The chapters that follow show you just how this microcontroller interfaces with the necessary devices, using c and assembly languages. The 8051 microcontroller uses these languages to interact with several devices, which include lcds, keyboards, sensors and stepper motors. The second edition of this book is inclusive of several other features, which were not present in the first book. These include topics such as ds12887 real-time clock chip, c programming and optoisolators. These changes have been made to ensure that the book is up-to-date. The second edition of the 8051 microcontroller and embedded systems using assembly and c, 2/e has been published by pearson, in the year 2008 and is available in paperback. key features: the book gives you updated information on various topics that pertain to the 8051 microcontroller. The author has included various new sections in many of the original chapters in this book.

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