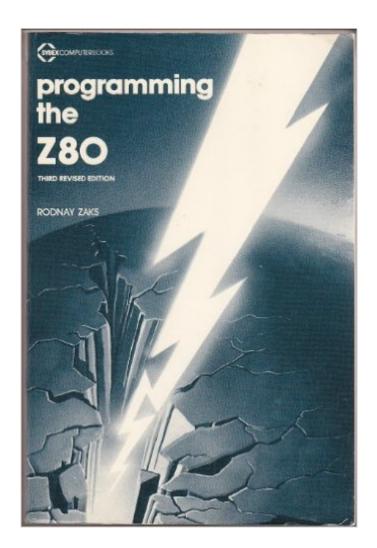# Programming The Z80

Synopsis

Programming the Z80 has been designed as an educational text and as a self-contained reference book. As such, it can be used as a complete introductory book on programming, ranging from the basic concepts to advanced data structure manipulations. It also contains a comprehensive description of all the Z80 instructions as well as its internal operation, and should provide a comprehensive reference for the reader who is already familiar with the principles of programming, but wishes to learn the Z80. This book is the result of extensive experience by the author in the field of education and programming. As such, it has been designed to be clear and easy to read. All concepts are explained in simple yet precise terms, building progressively towards more complex techniques. The reader will gain not only an understanding of programming in the language of the Z80 but also a detailed understanding of the way a microprocessor such as the Z80 actually executes instructions. The reader will follow the flow of execution between the various registers and along the buses. This is indispensible for effective programming at machine level in the world of microprocessors. Because programming is not just the skill of coding an algorithm into a programming language but also the art of designing appropriate data structures, an extensive chapter on data structures is presented which both introduces the concepts and actual application programs. The reader will find there lists, tables, binary trees, and the required algorithms. After reading this book, the reader should have acquired all the basic skills required to program not just at the elementary level, but in most practical cases.

Book Information

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Customer Reviews

When I was first starting to program I came across this book. It was not only a well written, complete reference on the Z-80, it was a perfect reference book. Now, when I program, I generally need several reference books hanging around. Mr. Zaks said it all, cleanly, concisely. Any success I had in my later programming, I have always felt that his book was at the core.

When I was first charged with the lightning bolt of the promise of software possibilities, I found this book. It helped me see how to view a microprocessor's capability in a comfortable, natural progression of understanding. It provided me what I wanted to know where I expected to find it. The references to related information, missing in most documentation, always seemed to be both appropriate and conveniently located. It was as if Zaks knew my own, unique desire to learn and how it naturally unfolded. It felt as though he had prepared each of the steps that I would need by having been where I was. It served me tirelessly as a reference until it fell apart. Books of this type are hard to find today.

All my tries to learn assembly language was a failure until I found this extraordinary book, by browsing a website dedicated to Sega Master System programming, if you want to learn how to program your childhood gaming console, I speak about the 8-bit and 16-bit consoles generation, this book may help you to seriously approach your goal, beyond retro console programming learning assembly language may help you to more understand the C programming language or languages similar to, and starting from an 8-bit microprocessor or even 4-bit is a good idea since trying to learn from more recent microprocessors can be an impossible mission for people without a solid foundation in computer science like me, I think that it is extremely difficult to arrange the topics of a subject in a book and to find the sentences to explain its material, Rodnay Zaks does an excellent job regarding this with his book.Note: the book is available online as a PDF with the author approval even though I found it more convenient to read a printing version of the book.

This is a book I had long ago, at the time I wasn`t able to implement my desires so I play with antiques of the computer revolution. It is well written and illustrated, and does not assume that "C" is the "end all be all" of the computer world. A most satisfying reference for a beginner (I have been officially in electronics for 40+ years and still consider myself a beginner) and has much info most very useful to Z80 and other processors.

Receivec in perfect order! Very pleased with it

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