

The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer)

Christopher David Smith

Download now

Click here if your download doesn"t start automatically

The ZX Spectrum Ula: How to Design a Microcomputer (ZX **Design Retro Computer)**

Christopher David Smith

The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) Christopher **David Smith**

This book takes the reader through the design and implementation of the Sinclair ZX Spectrum's custom chip, revealing for the first time the decisions behind its design and its hidden secrets. By using it as case study, the techniques required to design an 8-bit microcomputer are explained, along with comprehensive details of the Ferranti ULA manufacturing process. If you have ever wanted to design your own computer or wondered what was behind the most successful microcomputer of the 1980s, then this is the book for you. For the first time, the inner working of the Sinclair ZX Spectrum's custom chip and heart of the computer, the Ferranti ULA, is exposed in minute detail. Packed with over 140 illustrations and circuit diagrams, this book takes the reader through the cutting edge technology that was the Ferranti ULA and the design of the ZX Spectrum home computer, illustrating the principles and techniques involved in creating a cost effective computer that required nothing more than a television set and a cassette recorder. The ZX Spectrum ULA is an essential read for the electronics hobbyist, student or electronic engineer wishing to design their own retro-style microcomputer or anyone with an interest in historical micro-electronic and digital design. All topics are explained in simple yet precise terms, building on their careful introduction towards the full functionality presented by the Sinclair computer. Some of the topics covered are: The architecture of the standard microcomputer, Ferranti and their ULA, manufacturing process and structure, The functional layout of the ZX Spectrum ULA, Video display generation, Memory contention and timing, ZX Spectrum design bugs such as "The Snow Effect", Hidden features, ULA version differences.

Download The ZX Spectrum Ula: How to Design a Microcomputer ...pdf

Read Online The ZX Spectrum Ula: How to Design a Microcomput ...pdf

Download and Read Free Online The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) Christopher David Smith

From reader reviews:

Eva Burton:

Book is to be different per grade. Book for children until finally adult are different content. We all know that that book is very important for all of us. The book The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) seemed to be making you to know about other knowledge and of course you can take more information. It doesn't matter what advantages for you. The publication The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) is not only giving you considerably more new information but also being your friend when you really feel bored. You can spend your own spend time to read your reserve. Try to make relationship together with the book The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer). You never really feel lose out for everything if you read some books.

Cynthia Necaise:

People live in this new morning of lifestyle always attempt to and must have the time or they will get lot of stress from both daily life and work. So, when we ask do people have extra time, we will say absolutely sure. People is human not just a robot. Then we consult again, what kind of activity do you possess when the spare time coming to a person of course your answer will certainly unlimited right. Then do you try this one, reading publications. It can be your alternative throughout spending your spare time, the particular book you have read is The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer).

Virginia Hause:

Do you like reading a guide? Confuse to looking for your chosen book? Or your book was rare? Why so many concern for the book? But any kind of people feel that they enjoy to get reading. Some people likes looking at, not only science book but additionally novel and The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) or maybe others sources were given expertise for you. After you know how the truly amazing a book, you feel want to read more and more. Science reserve was created for teacher or even students especially. Those publications are helping them to add their knowledge. In other case, beside science reserve, any other book likes The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) to make your spare time much more colorful. Many types of book like this.

Karen Delamora:

Guide is one of source of understanding. We can add our understanding from it. Not only for students and also native or citizen want book to know the change information of year to help year. As we know those guides have many advantages. Beside many of us add our knowledge, also can bring us to around the world. By the book The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) we can have more advantage. Don't you to definitely be creative people? To become creative person must choose to read a book. Just choose the best book that appropriate with your aim. Don't end up being doubt to change

your life with this book The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer). You can more inviting than now.

Download and Read Online The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) Christopher David Smith #103HZKIMJ4S

Read The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) by Christopher David Smith for online ebook

The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) by Christopher David Smith Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) by Christopher David Smith books to read online.

Online The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) by Christopher David Smith ebook PDF download

The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) by Christopher David Smith Doc

The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) by Christopher David Smith Mobipocket

The ZX Spectrum Ula: How to Design a Microcomputer (ZX Design Retro Computer) by Christopher David Smith EPub