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TTL Cookbook

SAMS   Don Lancaster

TTL Cookbook

▶ TTL applications and projects
▶ Complete catalog of integrated circuits
▶ TTL circuit design tips and techniques
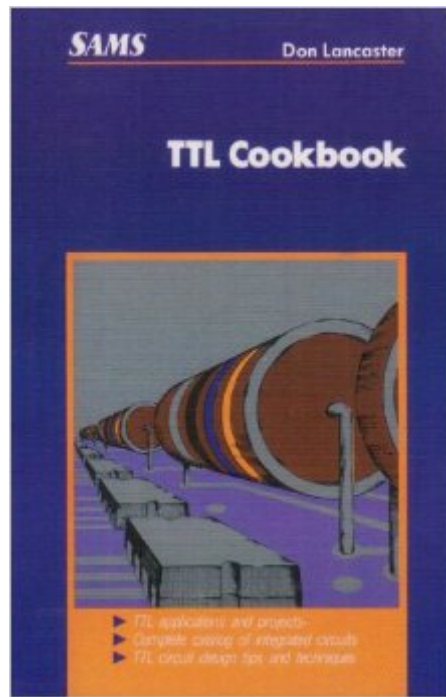
Synopsis

This best-selling book has become the standard reference to TTL devices. It tells what they are, how they work, and how to use them. It also covers TTL basics, a catalog of devices, logic gates, flip-flops, shift registers, and rate multipliers. It is filled with circuits and practical applications.

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Customer Reviews

I have had a copy of Don's TTL Cookbook around and handy ever since 1984. During one digital electronics course I took, it just happened to be the textbook used for the course.This book is by far the most practical and well written electronics book I have ever seen, or run across. The methods and rules to follow for using TTL are spelled out so that one can build reliable circuits. The examples given are explained so that one may draw their own conclusions, and use the examples as building blocks or teaching aids to develop one's own circuits.Time and again, I return to this text as reference. It, along with the CMOS Cookbook, make a powerful set of tools for anyone who wants to build high-reliablility digital circuits.

TTL Cookbook is a crucial electronics text. It will have you understand semiconductors, digital logic, and computers at a fundamental level. I've been in IT for 25 years now. TTL Cookbook is the best technical book I've ever read. If I had not read this book, I don't think I would have succeeded as a programmer. TTL Cookbook opens up the black box. I read this book when it came out and immediately started building my own homebrew computers from scratch.

This book was current and hot in the mid-'70s, when I was new to computing, but had a ham radio license (so I knew a bit about basic electronics). It was like a grimoire or spell-book: each example made me say "Wow!" in a way no non-fiction book had or has, before or since. It made logic _real_. I even built TTL gizmos that were more advanced than the book's examples, simply because I learned enough from reading to be able to do so (and I was 15 years old at the time). It made me realize I _could_ turn ideas into hardware. It made me understand what "if/then" was all about. It gave me confidence. As another reviewer beautifully put it, "If I had not read this book, I don't think I would have succeeded as a programmer." Well said, bro'.

The TTL Cookbook is nearly identical to the CMOS cookbook. Having purchased both at the same time, I found myself skimming through the TTL book as reference, then turned to the CMOS book to actually read.Simply said, they are nearly identical and there are some sections that are verbatim between the two books.I doubt I will ever work with real TTL devices since CMOS has replaced it so well.. even mimicking TTL's voltage characteristics in later CMOS versions.One quarter of the book is TTL datasheets.. which is useful reference. But on the whole, I skimmed the book, set it down and have not opened it back up since the CMOS Cookbook is more current and pretty much the same thing on the scope of logic study.If I had known the two books were so similar, I'd probably not have bought the TTL Cookbook. Still a good book to understand digital logic though.

This book may be old, but it's still relevant. The material contained within makes this an excellent learning tool.While some of the information in here is a bit out of date, most of it is still valid today. The specifications for max operating frequencies given in this book are lower than the specifications for current day parts (big surprise), and a very small number of parts listed in here seem to be currently obsolete. The obsolete parts, for the most part, are predictable though. Most of the obsolete parts are for old technologies which are no longer used, like drivers for neon 7-segment displays and nixie tubes. A couple are for displaying information on a standard definition TV. The vast majority of the parts shown in this book, however, are still relevant today.This book provides good background information on the characteristics of the different types of logic chips, and how to use them. It also provides a healthy sampling of useful circuits which can be made from these chips. Additionally, the book provides you with needed information on how to design your circuits such that they'll behave as expected, and have reliability.In order to build good, truly reliable circuits, I recommend supplementing this book with "Circuit Designer's Companion." The, "CMOS Cookbook,"

also by Don Lancaster, is another great companion to this book. With all three books, one should be able to design very nice, reliable circuits which can perform some fairly sophisticated tasks.I highly recommend this book!

I read this book when it was first published, and immediately was able to apply the lessons I learned. Lancaster writes clearly and succinctly, and makes it all very approachable. He also goes beyond the basics, and discusses the use of various logic functions in less than obvious applications. I loaned this book to my then boss, a relay logic guy, and he learned enough in one sitting to recognize a couple of minor errors.We're well past the days of TTL, but I recommend this volume without reservation, as I have not yet found a better introduction to logic design.

In the modern world of microcontrollers and complex custom parts, the aging 74xx series TTL chips don't get much attention these days, but they're still around and the general concepts outlined in this book still apply. It's a classic book, well written, and provides a good lesson in digital logic. I've had a copy of this book for years and still refer to it regularly.

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