

# What they are saying about the **Programmable Logic Device Handbook** authored by Von Burton, that everyone is talking about.

*"The PLD industry is booming and shows no sign of letting up! New architectures and technologies are being introduced, literally, on a daily basis. If you are not involved with PLDs today, be prepared to get involved tomorrow because the benefits of PLDs are too great to overlook. The PLD Handbook, by Von Burton, will help you to understand the power of these devices."*

**Michael McClure**  
Marketing Product  
Line Manager  
DATA I/O Corporation

*"I have just finished an overview and find that your description of the works as a Handbook are quite appropriate. I have seen much data on the subject, but never organized for use by those new to the technology. I would expect they will find this Handbook invaluable and veteran users to be extremely appreciative to have the material organized in such a useable format."*

**H.F. Deines, Jr.**  
President  
INLAB, Inc.

*"Two years ago when you approached me for data in writing your book "Programmable Logic Device Handbook", I thought the project would never get off the ground let alone be worth the paper it was written on. I was wrong! The quality, integrity and timeliness of your book blows away anything else on the market. My congratulations on undertaking the impossible and making it in to a true success."*

**Allan V. Carey**  
Vice President  
Sunrise Electronics, Inc.

*"The PLD Handbook by Von Burton is a well-written, informative treatment of PLD's and their support tools, and will benefit both rookie and veteran users of programmable logic."*

**Jeffery J. Williams**  
Product Manager  
Logical Devices, Inc.

*"PLDs have become so important to the marketplace that it's essential for all of us who are part of this industry to keep up with the ever changing technology. A comprehensive reference book like Von L. Burton's, The PLD Handbook, is a valuable tool."*

**Karen M. Andrews**  
Marketing Products Manager  
Anvil Software, Inc.

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The development of programmable logic devices (PLDs) is one of the most exciting advances to occur in electronics in recent years. You now have an alternative to the power limitations and bulk of fixed-function devices and the time-consuming complexity of custom-designed ICs. The advancing PLD technology is opening up new vistas in the development of electronic devices—giving you new levels of speed and power in ever more compact and flexible circuits.

Von Burton wrote **The Programmable Logic Device Handbook** to be the best reference on PLD technology you will find. He covers the full spectrum of this advancing chip technology, with details on:

- **PLD Architectural Characteristics**

Coverage includes complete breakdowns of all the most popular PLD architectures. Burton discusses design flexibility, boardspace reduction, logic-design security, reduction of inhouse inventories, competitive speeds and performance, and cost comparisons. You will find complete logic diagrams showing latch or register selections, gate diagrams, macrocells, and fuse maps for each different architecture.

- **PLD Technology Tradeoffs**

PLDs offer many advantages over conventional ICs. Nevertheless, when it comes to deciding between specific PLD technologies, the pros and cons are not always so easy to differentiate. Burton takes a close look at bipolar fuse-based PLDs, TTL and ECL technology, electronically erasable logic, CMOS programmable logic, ultraviolet erasable CMOS, and GaAs devices. He discusses model libraries, tester support, update service, and more.

- **Logic Synthesis and Software Tools**

The growth in the complexity of ICs has been closely paralleled by the growth in development of software tools. This growth has led to the concept of "logic synthesis." Burton presents a walk-through explanation of each of the nine stages of logic synthesis, and then examines several of the most popular software tools available.

- **Development Systems**

There are several complete development systems available on the market today, offering all of the tools needed by the engineer for designing, programming, and testing a PLD. Burton provides step-by-step guidance through the design process, and gives recommendations for achieving optimum circuit flexibility from your development system.

- **PLD Programming Hardware**

Several PLD programmers are currently available, and it's important that designers know the capabilities and limitations of the various systems. Burton examines seven of the most popular programmers on the market, and gives you the insight necessary to select the right system for your needs.

**Try it. You'll like it!**