Very Clear And Crisp Overview

Gain a Working Knowledge of the Entire Microprocessor Design Flow

This unique step-by-step guide is a complete introduction to modern microprocessor design, explained in simple nontechnical language without complex mathematics. An ideal primer for those working in or studying the semiconductor industry, Microprocessor Design explains all the key concepts, terms, and acronyms needed to understand the steps required to design and manufacture a microprocessor.

Developed from a successful corporate training course, this hands-on learning guide walks readers through every step of microprocessor design. You'll follow a new processor product from initial planning through design to production. In Microprocessor Design, the author converts his real-world design and teaching experience into an easy-to-follow reference employing an on-the-job-training approach to cover:

- The evolution of microprocessors
- Microprocessor design planning
- Architecture and microarchitecture
- Logic design and circuit design
- Semiconductor manufacturing
- Processor packaging and test

This authoritative reference is an excellent introduction for students or engineers new to processor design and can show industry veterans how their specialty fits into the overall design flow. This accessible and practical guide will provide the reader with a broad working knowledge of the concepts of microprocessor design, as well as an understanding of the individual steps in the process and the jargon used by the industry.
My Personal Review:
I worked 40 years in this field and read many of similar books. The one by Grant McFarland is by far one of the best I have ever read. It is to be put on side of classical texts like the ones by Carver Mead or by Glasser & Dobberpuhl. Microprocessor Design is very clear, very well organized, has nice and effective drawings and a very good bibliography. It should be highly recommended also for IT marketing people to understand what is the real foundation of the IT revolution. One last remark: its a pity that a similar text doesn't exist for software. But software technology is more complex than hardware, even if it doesn't seem so; and I'm pessimistic that such a text may appear in a short time.

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