



Microprocessor Design: A Practical Guide from Design Planning to Manufacturing (Professional Engineering)

By Grant McFarland



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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:

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.

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About the Author

Grant McFarland holds a PhD in electrical engineering from Stanford University. His doctoral dissertation, *CMOS Technology Scaling and Its Impact on Cache Delay*, predicted the impact of fabrication technology scaling on the design of processor cache memories. Dr. McFarland is currently senior design engineer for Intel(R) Corporation where he created a corporate training course and teaches the fundamentals of microprocessor design. He participated in the design of the 180nm, 90nm, and 65nm generations of the Pentium(R) 4 microprocessor. Readers with comments or questions about this book can reach him at grant.mcfarland@comcast.net. Users Review

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