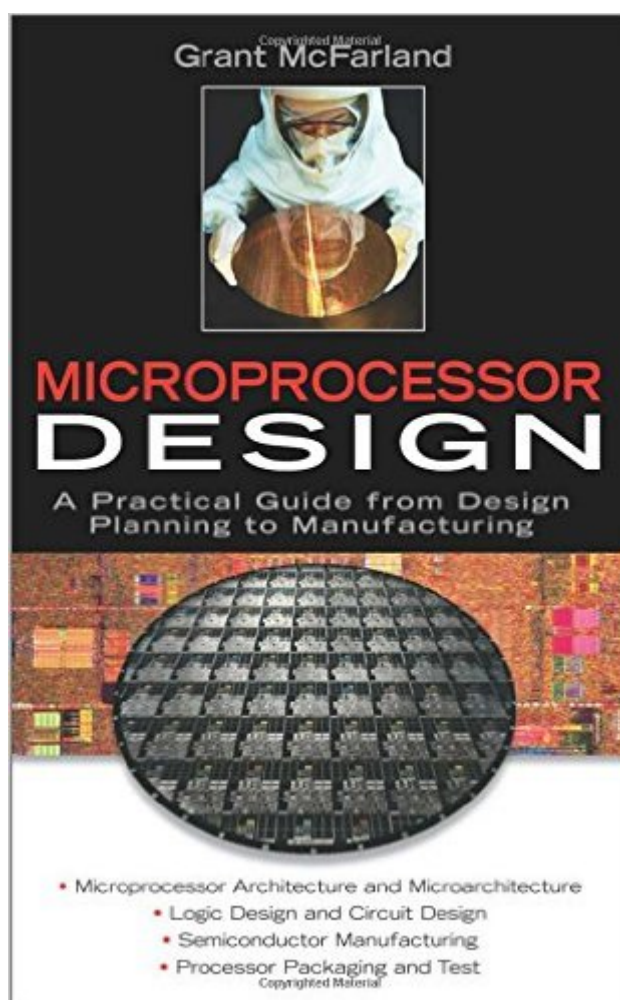


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# Microprocessor Design: A Practical Guide From Design Planning To Manufacturing (Professional Engineering)



## Synopsis

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.

## Book Information

Series: Professional Engineering

Hardcover: 408 pages

Publisher: McGraw-Hill Education; 1 edition (April 22, 2006)

Language: English

ISBN-10: 0071459510

ISBN-13: 978-0071459518

Product Dimensions: 6.2 x 1.5 x 9.1 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (5 customer reviews)

Best Sellers Rank: #939,858 in Books (See Top 100 in Books) #112 in [Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > Microprocessor Design](#) #286 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Digital Design](#) #12585 in [Books > Textbooks > Computer Science](#)

## Customer Reviews

Excellent book on overall semiconductor products from general design to basics of fabrication. An excellent resource for someone with some knowledge in one area and looking to expand their knowledge across more areas

I worked 40 years in this field and read many of similar books. The one by Grant Mc Farland 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: it's 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.

Excellent book. It is an easy read but at the same time detailed and comprehensive. A very good book for non-EE engineers. I highly recommend this book for people that like to get an overall understanding of Microprocessor design and manufacturing.

Really good introduction into wonderful world of microprocessors. Too bad it is out of print. Grant McFarland has a great style explaining complex things very well. And he definitely knows what he is talking about having worked at Intel for so many years. :)

Provides a good overview of all aspects of microprocessor design

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