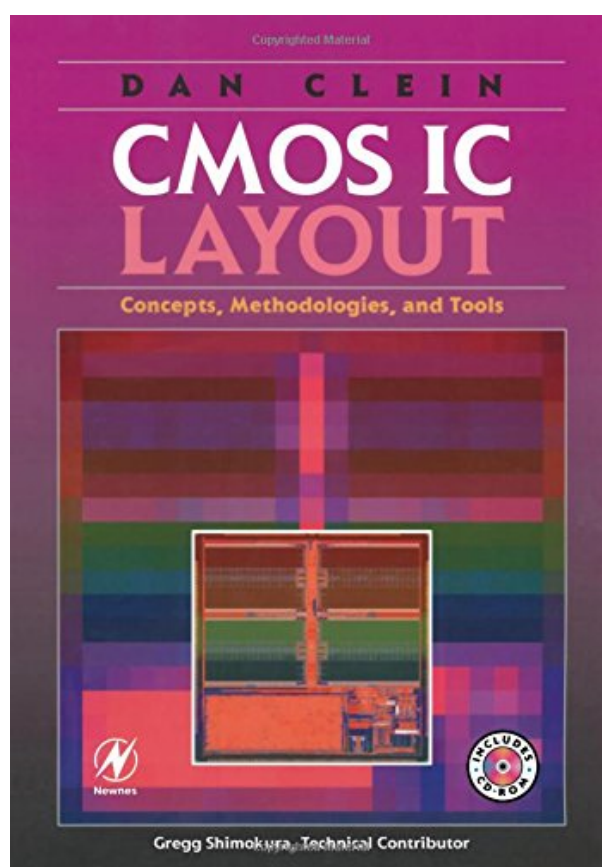


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This book includes basic methodologies, review of basic electrical rules and how they apply, design rules, IC planning, detailed checklists for design review, specific layout design flows, specialized block design, interconnect design, and also additional information on design limitations due to production requirements.

About the Author

Manager, Mixed-Signal Layout, PMC-Sierra Inc., Ottawa, Canada.

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\*Practical, hands-on approach to CMOS layout theory and design

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\*Covers manufacturing processes and their effect on layout and design decisions

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## About the Author

Manager, Mixed-Signal Layout, PMC-Sierra Inc., Ottawa, Canada.

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10 of 11 people found the following review helpful.

Simplest book to start out in chip mask design.

By Michael Wright

This book is a good choice to learn mask design if you want to keep it as simple and cook-book like as possible. The book focuses on basic CMOS digital. Approximately 80 percent of all mask design is in CMOS digital, so that makes sense. Ancillary topics are brought up, such as simplified electronic

conceptualizations of transistors, resistors, capacitance, current density, it even touches on more specialized areas such as floor planning and routing. This book covers a lot of ground lightly, but never with any engineering depth. I ignored those areas where, in my opinion, the author crossed the line of oversimplification for the sake of simplicity (the indication of current flow in P transistors is well meaning but incorrect, for example). (Now that several years have passed and I have seen first-hand how this has at times confused mask design students, I feel that it should be mentioned.)

Engineers and experienced mask designers should consider one of the more in-depth books, such as *The Art of Analog Layout*, or *IC Layout Basics: A Practical Guide*, or *IC Mask Design: Essential Layout Techniques*, or one of the many VLSI Design 101 texts for electronic engineering students.

Purchase 'The Art of Analog Layout' if you want to focus on analog mask design issues, the physical issues rather than the software), or any of the above-mentioned books for the more specialized or difficult material such as analog layout, the bipolar transistor, power, VFET, MESFET, heterojunction, GaAs, SiGe, discrete, infra-red low bandgap materials, light collection, minority carriers, high voltage layout techniques, or anything more difficult, advanced, unusual, or for engineers versus mask designers. 'The Art of Analog Layout' is good enough to be an excellent reference for even the working mask designer and engineer.

If you wish to learn mask design as if it were more like drafting, as some vocational schools still do, then this book is for you. I'm a senior analog chip design engineer and an advanced-level mask designer. I've worked with beginning mask designers. My opinion is that the mask-design-like-drafting path does not an excellent mask designer make, but you've got to start somewhere.

0 of 0 people found the following review helpful.

Five Stars

By CAD Man

Nice reference book.

17 of 18 people found the following review helpful.

CMOS IC Layout book review

By A Customer

I have been a layout designer for 10 years and this is the first book I have found that is devoted exclusively to ic layout. It is about time. Your book does a good job of covering layout in the broad sense which make sit good for beginners and junior layout designers. I especially think you did a good job explaining the concepts of layers, basic design rules and transistor fingering. I do feel that you could have spent more time with transistor, resistor and capacitor matching from an analog perspective. Like most text and tools, your emphasis was on digital circuit. Keep up the good work and I look forward to the 2nd edition...

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