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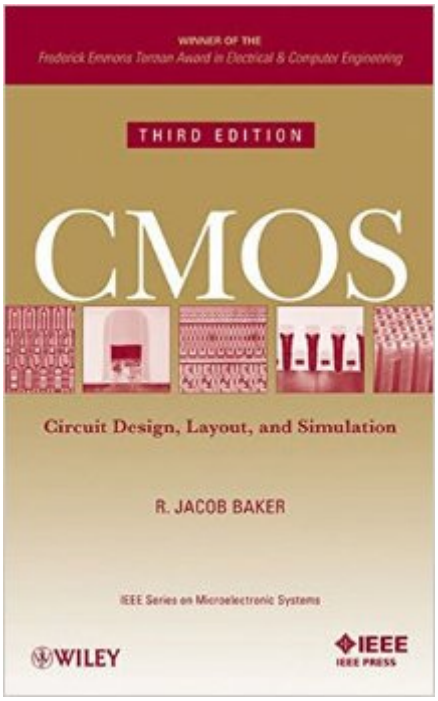

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Synopsis

The Third Edition of CMOS Circuit Design, Layout, and Simulation continues to cover the practical design of both analog and digital integrated circuits, offering a vital, contemporary view of a wide range of analog/digital circuit blocks including: phase-locked-loops, delta-sigma sensing circuits, voltage/current references, op-amps, the design of data converters, and much more. Regardless of one’s integrated circuit (IC) design skill level, this book allows readers to experience both the theory behind, and the hands-on implementation of, complementary metal oxide semiconductor (CMOS) IC design via detailed derivations, discussions, and hundreds of design, layout, and simulation examples.

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Customer Reviews

After dealing with Analysis and Design of Analog Integrated Circuits in one of my graduate courses, I found reading this book a pleasure. The author develops your intuition in a way that make your grasp the concepts instantly. First he presents the theory in a simple and clear way and then he analyses the different circuit topologies in a pure rigorous way (you need to do some algebra after all) but with clear explanations about the procedure. After that, he presents the same solution to the problem from a different point of view, leaving the algebra aside and making you understand what is going on using an intuitive approach. Finally, and this plays an important role in the book, he persuades you to verify the results using SPICE. But hey, don’t think that you need to write the netlist of every example, the author has done that for you! The companion website [...] is an

authentic gold mine for students, seriously, he has put a lot of effort into making all the examples available for serveral SPICE simulators like hspice, LTspice, spectre, silvaco, electric... There are even videos and tutorials on how to use these tools. Even more? Yes! If you feel like learning on your own, you can watch all the lectures of the different courses that he taught at Boise University! This website is pricesless! I wish my teachers were 1/10th as good as he is.The key concepts are repeated over and over through the chapter so you will never feel lost in the middle of a bunch of equations like it has happened to me when reading "Gray & Meyer". If you are looking for a real text book, this is it! You won't regret!

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