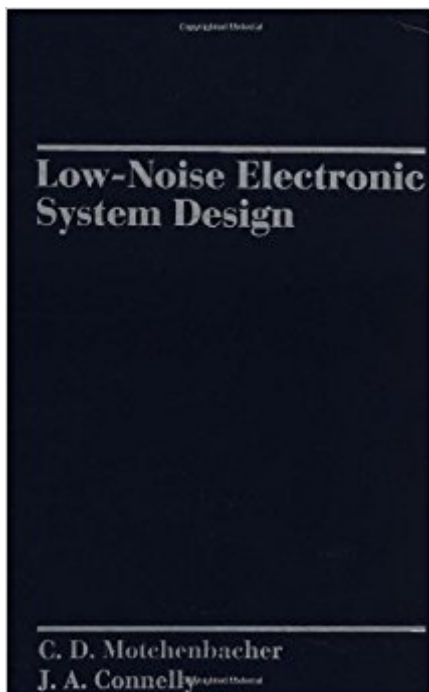


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Low-Noise Electronic System Design



Synopsis

Emphasizes IC design concepts with additional support for discrete design where necessary.

Describes noise sources and models; addresses practical problems of circuit design for low noise using negative feedback, filtering, component noise, measurement techniques and instrumentation; gives numerous examples of practical amplifier designs. Five chapters cover the use of SPICE and PSpice for low noise analysis and design.

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Customer Reviews

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Describes noise sources and models; addresses practical problems of circuit design for low noise using negative feedback, filtering, component noise, measurement techniques and instrumentation; gives numerous examples of practical amplifier designs. Five chapters cover the use of SPICE and PSpice for low noise analysis and design.

If you have gotten a job to design low-noise amplifiers, or even if you are just a very serious amateur, you should read this book. I usually work with thousands of volts, so getting a job to design an amplifier for nanovolts was a bit disorienting. Nevertheless, after reading this book, and spending some quality time in the design, I designed an LNA that hit its noise figure. Everything is laid out so logically, and the text is so complete, that the subtitle could be "LNA's for Idiots". I went from total newb to apparent expert in a few weeks. I wish all circuit design books were written this well.

The book has good coverage of low noise topics and provides examples to reinforce concepts. While I haven't read it thoroughly, it is well organized so I can jump to the topics I'm looking for.

This is the best book that I have read on noise in microelectronic circuits. The noise equations and treatments are complete for bipolar and MOSFETs. The book is written largely from a discrete transistor level, hence is not as familiar to integrated circuit engineers as say Gray and Meyer, but the treatment is extensive, clear and to the best of my knowledge accurate. This is my favorite book on low noise at the transistor level and I have several.

This is a very good book for basic understanding of noise and noise modelling.

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