Operational Amplifier Noise: Techniques and Tips for Analyzing and Reducing Noise

Von Art Kay
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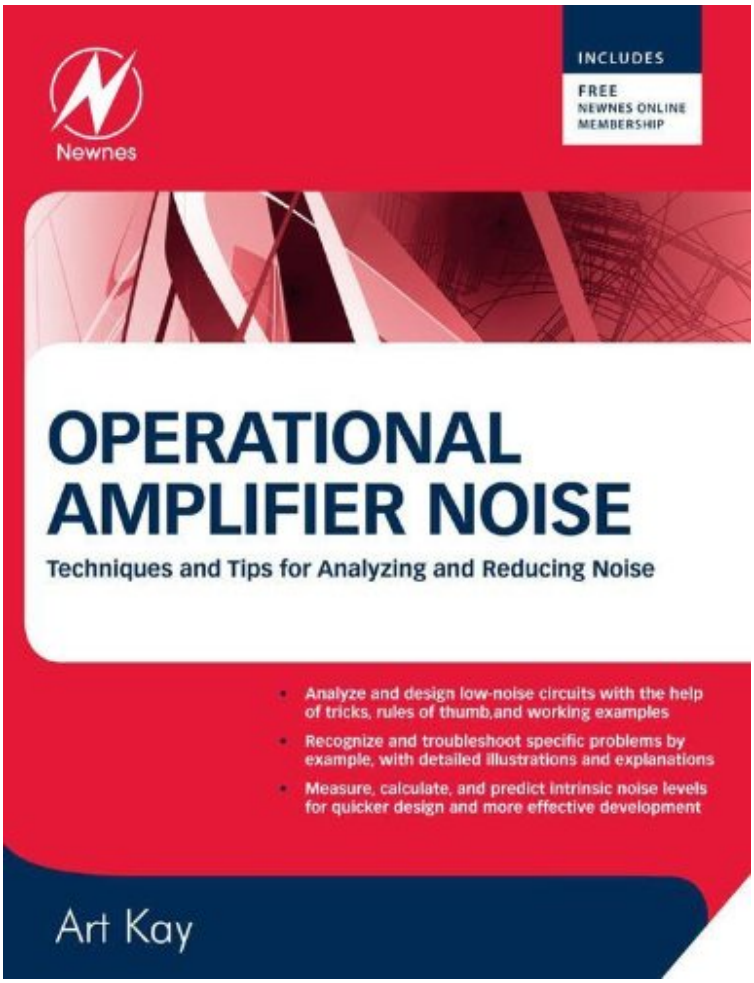

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Von Art Kay : Operational Amplifier Noise: Techniques and Tips for Analyzing and Reducing Noise before purchasing it in order to gage whether or not it would be worth my time, and all praised Operational Amplifier Noise: Techniques and Tips for Analyzing and Reducing Noise:

KundenrezensionenHilfreichste Kundenrezensionen0 von 0 Kunden fanden die folgende Rezension hilfreich. Geballtes Wissen ber Rauschen in OperationsverstrkernVon baibanDas Buch richtet sich m.E. an den fortgeschrittenen Schaltungsentwickler, der im Bereich Analogtechnik "unterwegs" ist. Hhere Mathematik wird weitgehend vermieden, sodass es auch ohne Hochschulstudium verdaulich ist.Auf etwa 230 Seiten vermittelt Art Kay das wesentliche zum Thema. Man findet viele Beitrge vom Buchautor auch als "Application Note" bei Texas Instruments und knnte sich das Wissen des Buches mit etwas Mhe auch von dort zusammensuchen. Dis Zusammenstellung und der rote Faden,

der durch das Buch fhrt stellen aber einen echten Mehrwert dar.Anders als die bliche Studienliteratur zum Thema ist das Buch nicht mit Formeln berladen und versucht wenn mglich Zusammenhnge durch geeignete Diagramme zu erklren. Ein Bild sagt mehr als tausend Worte - und das hat sich der Autor zu Herzen genommen. Die unzhligen Schaltbilder, Oszillogramme und Diagramme stellen immer wieder einen ganz unmittelbaren Praxisbezug her und haben bei mir immer wieder zu lang ersehnten Aha-Erlebnissen gefhrt. Beispielsweise das Kapitel ber Popcorn- bzw. Burst Noise - noch nirgends habe ich bis jetzt die Kombination aus Theorie, Praxis (Oszillogramme und zahlreiche Diagramme) und Ursprung (Mikroskopische Aufnahme eines Wafers) so prgnant und umfassend gefunden.Danke Art Kay fr dieses tolle Buch!0 von 0 Kunden fanden die folgende Rezension hilfreich. A really good book!Von SpartanIn a good didactic manner the author brings all necessary knowledge to the reader. After reading this book you are able to estimate and calculate different noise sources of opamp circuits you usually find in your every day business. With step by step calculation examples and short tests at the end of every chapter you can check you understanding.0 von 0 Kunden fanden die folgende Rezension hilfreich. Best book on OPAMP NoiseVon TarikThe selection of Topics dealing with OPAMP noise, the way Art analyses each topic, the level of Expertise: Just everything is right. Excellent book!

KurzbeschreibungArthur Kays exciting new publication is a must have for practicing, professional electrical engineers. This comprehensive guide shows engineers how to design amplifiers and associated electronics to minimize noise, providing tricks, rules-of-thumb, and analysis to create successful low noise circuits. Forget the classical textbook traps of equations, virtual grounds, and a lot of double-speak, the novel but educational presentation used here uses definition-by -example and straight-forward analysis. This is the ultimate reference book for engineers who don't have the time to read, since the concepts are presented in detailed pictures and then repeated in the text for those who like both. Operational amplifiers play a vital role in modern electronics design. Today, op amps serve as the interfaces between the digital world of microprocessors, microcontrollers, and other digital circuits and the analog "real world". If an analog signal must be amplified, conditioned, filtered, or converted to be used by a digital system, an op amp is almost always involved. Noise is an unwanted signal that will corrupt or distort the desired signal, and veteran engineers as well as new college graduates are often faced with a lack of experience in noise analysis for operational amplifiers. The author has created a publication that is packed with essential information, while still being accessible to all readers. Clear, definition-by-example presentation allows for immediate use of techniques introducedTricks and rules-of-thumb, derived from author's decades of experienceExtreme use of figures for rapid absorption of conceptsConcise text explains the key points in all figuresAccessible to all types of readersAnalysis and design of low-noise circuits using op amps, including design tradeoffs for low-noiseDesktop reference for designing low-noise op amp circuits for novice to experienced engineersAccurate measurement and prediction of intrinsic noise levels, using analysis by hand and SPICE simulationPressestimmen"Operational Amplifier Noise is not a low-cost textbook but that will not stop the buyer who really wants to understand and do something about noise in his designs... The book is rich in figures and that makes layouts very difficult but it is well achieved for the most part although, by necessity perhaps, sizing has been a little arbitrary in some cases. While it's been EN-Genius' privilege to host most of the book s content on our site as TechNotes, we would be the first to say that just having the text in your hands in hardback form is a great pleasure. We would highly recommend Art s book and expect it to be a surefire hit for many engineers. I am sure that I will see it on many bookshelves."--En-Genius.net ""An engineer with an electronics device company, Kay describes how to predict the level of noise any unwanted signal a circuit in an amplifier will produce using calculations and Spice simulations. He also discusses techniques for measuring and reducing noise. Among his topics are example calculations, Spice noise analysis, popcorn noise, instrumentation amplifier noise, and photodiode noise amplifier example results. Chapter-end questions are provided, with answers in the end matter."--"Reference and Research Book News, Inc.""Operational Amplifier Noise is not a low-cost textbook but that will not stop the buyer who really wants to understand and do something about noise in his designs... The book is rich in figures and that makes layouts very difficult but it is well achieved for the most part although, by necessity perhaps, sizing has been a little arbitrary in some cases. While it's been EN-Genius' privilege to host most of the book's content on our site as TechNotes, we would be the first to say that just having the text in your hands in hardback form is a great pleasure. We would highly recommend Art's book and expect it to be a surefire hit for many engineers. I am sure that I will see it on many bookshelves." --En-Genius.net "An engineer with an electronics device company, Kay describes how to predict the level of noise - any unwanted signal - a circuit in an amplifier will produce using calculations and Spice simulations. He also discusses techniques for measuring and reducing noise. Among his topics are example calculations, Spice noise analysis, popcorn noise, instrumentation amplifier noise, and photodiode noise amplifier example results. Chapter-end questions are provided, with answers in the end matter." --Reference and Research Book News, Inc.-Operational Amplifier Noise is not a low-cost textbook but that will not stop the buyer who really wants to understand and do something about noise in his designs... The book is rich in figures and that makes layouts very

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