



## Photodiode Amplifiers: OP AMP Solutions

By Jerald Graeme

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Light photons impinging upon a semiconductor material in the vicinity of a P-N junction release conduction carriers to produce current flow through the photodiode effect. Photodiode amplifiers convert this current to a voltage in a relationship that remains linear as long as the amplifier eliminates signal voltage swing from the photodiode. For this purpose, the simple current-to-voltage converter or transimpedance amplifier presents a virtual ground to the diode. However, when connected to a photodiode, this simple op amp circuit displays surprising multidimensional constraints that defy conventional op amp intuition.

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### Editorial Review

#### From the Back Cover

No matter where you are on the learning curve, this one-stop sourcebook delivers the kind of previously hard-to-find practical information you'll appreciate - and the wide range of application circuit alternatives you need - to optimize the noise, offset, bandwidth, and stability performance of photodiode amplifiers. Featuring the insights and accumulated knowledge that could only come from the world's number one authority on the subject, this is no scholarly tome but a hands-on reference - one that provides you with generalized circuit solutions that quickly adapt to specific design and application requirements. Inside, you'll find clear, complete, and largely stand-alone discussions of such topics as how the op amp current-to-voltage converter serves as the basic photodiode amplifier; the role of photodiode capacitance in an amplifier's AC response, along with design equations for optimum phase compensation; noise analysis, identification, and reduction; and wideband, high-gain, and position-sensing photodiode amplifiers. In all, this information-packed guide is without question the photodiode "bible" for anyone dealing with electronic design issues.

#### About the Author

McGraw-Hill authors represent the leading experts in their fields and are dedicated to improving the lives, careers, and interests of readers worldwide

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##### Eric Bass:

This Photodiode Amplifiers: OP AMP Solutions book is simply not ordinary book, you have it then the world is in your hands. The benefit you receive by reading this book is actually information inside this e-book incredible fresh, you will get information which is getting deeper anyone read a lot of information you will get. This specific Photodiode Amplifiers: OP AMP Solutions without we understand teach the one who reading it become critical in considering and analyzing. Don't become worry Photodiode Amplifiers: OP AMP Solutions can bring any time you are and not make your handbag space or bookshelves' turn into full because you can have it with your lovely laptop even telephone. This Photodiode Amplifiers: OP AMP Solutions having good arrangement in word in addition to layout, so you will not experience uninterested in reading.

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