



## 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

### Users Review

#### From reader reviews:

##### Ira Gonzalez:

A lot of people always spent all their free time to vacation as well as go to the outside with them loved ones or their friend. Were you aware? Many a lot of people spent that they free time just watching TV, as well as playing video games all day long. If you wish to try to find a new activity that is look different you can read some sort of book. It is really fun for yourself. If you enjoy the book that you just read you can spent all day long to reading a guide. The book Photodiode Amplifiers: OP AMP Solutions it is rather good to read. There are a lot of folks that recommended this book. They were enjoying reading this book. In case you did not have enough space to deliver this book you can buy typically the e-book. You can m0ore simply to read this book from your smart phone. The price is not too costly but this book provides high quality.

##### Norman Fuentes:

Reading can called imagination hangout, why? Because while you are reading a book mainly book entitled Photodiode Amplifiers: OP AMP Solutions your head will drift away trough every dimension, wandering in each and every aspect that maybe unidentified for but surely can become your mind friends. Imaging each word written in a guide then become one form conclusion and explanation this maybe you never get ahead of. The Photodiode Amplifiers: OP AMP Solutions giving you an additional experience more than blown away your brain but also giving you useful facts for your better life within this era. So now let us teach you the relaxing pattern is your body and mind will likely be pleased when you are finished reading it, like winning a game. Do you want to try this extraordinary paying spare time activity?

**Bruce Jackson:**

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