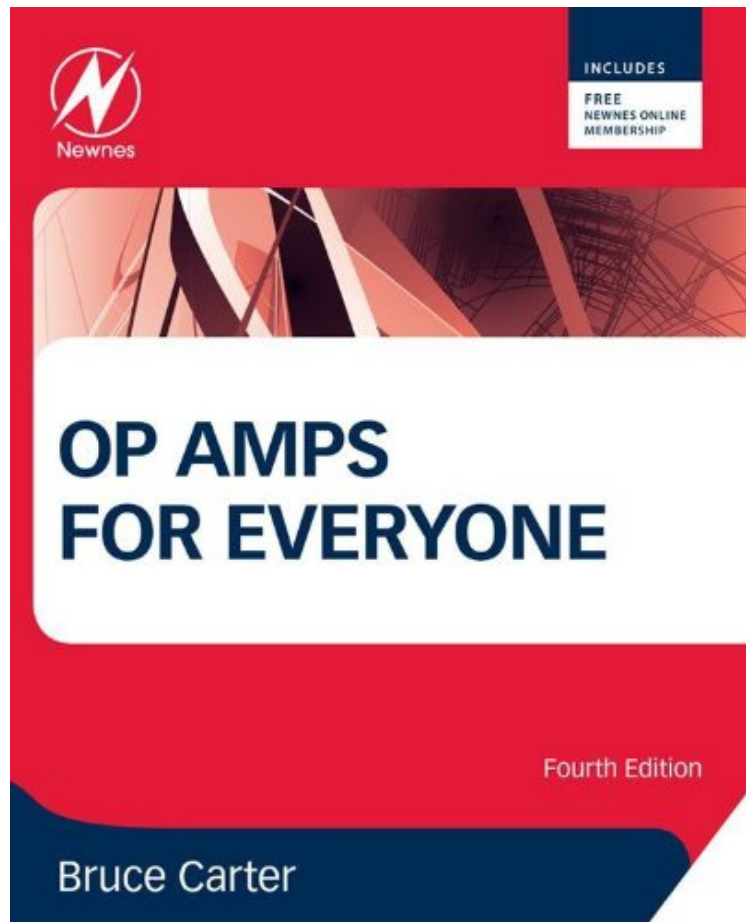


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Op Amps for Everyone

Von Bruce Carter

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Von Bruce Carter : Op Amps for Everyone before purchasing it in order to gage whether or not it would be worth my time, and all praised Op Amps for Everyone:

KurzbeschreibungOp Amps for Everyone is an indispensable guide and reference for designing circuits that are reliable, have low power consumption, and are as small and low-cost as possible. Operational amplifiers are essential in modern electronics design, and are used in medical devices, communications technology, optical networks, and sensor interfacing. This book is informed by the authors' years of experience, wisdom and expertise, giving engineers all the methods, techniques and tricks that they need to optimize their analog electronic designs. With this book you will learn: Single op amp designs that get the most out of every amplifier Which specifications are of most importance

to your design, enabling you to narrow down the list of amplifiers to those few that are most suitable Strategies for making simple "tweaks" to the design changes that are often apparent once a prototype has been constructedHow to design for hostile environments extreme temperatures, high levels of shock, vibration, and radiation by knowing what circuit parameters are likely to degrade and how to counteract that degradation New to this edition: Unified design procedures for gain and offset circuits, and filter circuitsTechniques for voltage regulator designInclusion of design utilities for filter design, gain and offset, and voltage regulationAnalysis of manufacturer design aids Companion website with downloadable materialA complete, cookbook-style guide for designing and building analog circuits A multitude of workable designs that are ready to use, based on real-world component values from leading manufacturers using readily available componentsA treasure trove of practical wisdom: strategies to tweak a design; guidelines for developing the entire signal chain; designing for hostile environments, and moreKurzbeschreibungOp Amps for Everyone is an indispensable guide and reference for designing circuits that are reliable, have low power consumption, and are as small and low-cost as possible. Operational amplifiers are essential in modern electronics design, and are used in medical devices, communications technology, optical networks, and sensor interfacing. This book is informed by the authors' years of experience, wisdom and expertise, giving engineers all the methods, techniques and tricks that they need to optimize their analog electronic designs. With this book you will learn: Single op amp designs that get the most out of every amplifier Which specifications are of most importance to your design, enabling you to narrow down the list of amplifiers to those few that are most suitable Strategies for making simple "tweaks" to the design changes that are often apparent once a prototype has been constructedHow to design for hostile environments extreme temperatures, high levels of shock, vibration, and radiation by knowing what circuit parameters are likely to degrade and how to counteract that degradation New to this edition: Unified design procedures for gain and offset circuits, and filter circuitsTechniques for voltage regulator designInclusion of design utilities for filter design, gain and offset, and voltage regulationAnalysis of manufacturer design aids Companion website with downloadable materialA complete, cookbook-style guide for designing and building analog circuits A multitude of workable designs that are ready to use, based on real-world component values from leading manufacturers using readily available componentsA treasure trove of practical wisdom: strategies to tweak a design; guidelines for developing the entire signal chain; designing for hostile environments, and moreber den Autor und weitere MitwirkendeBruce Carter holds dual degrees, Engineering Physics from Texas Tech University, and Electrical Engineering at the University of Texas. He has over 30 years of experience in analog design for military and oil field service companies. He was an applications engineer at Texas Instruments for 9 years, where he authored application notes, contributed articles, and knowledge base FAQ's.