DC Power Supplies: A Technician's Guide

Joseph J. Carr
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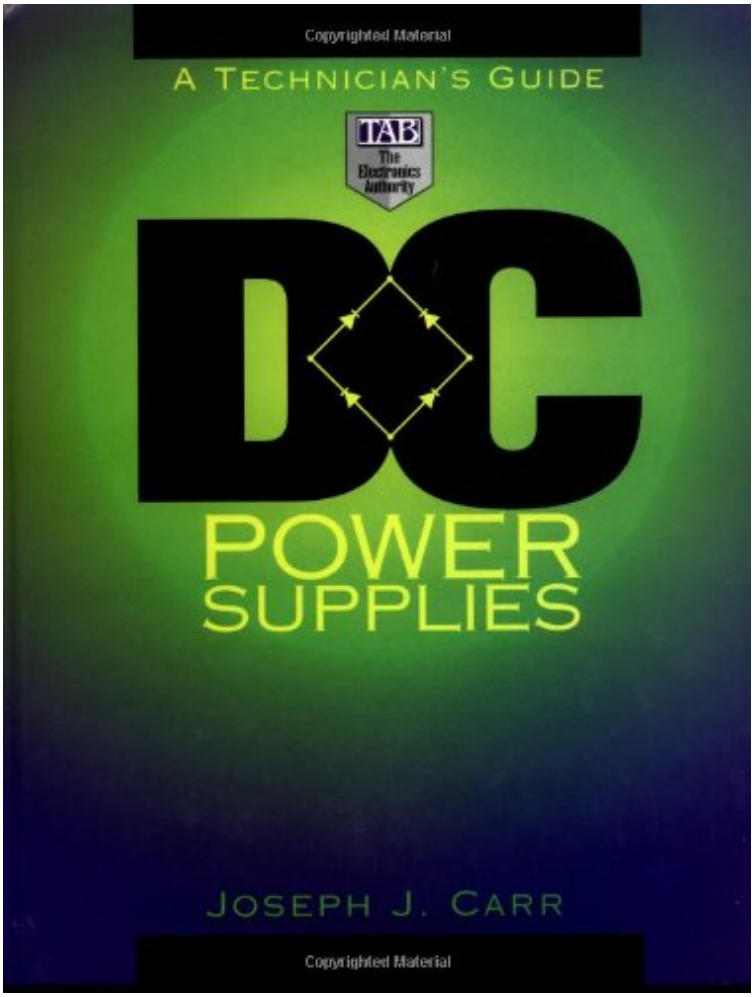

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Joseph J. Carr : DC Power Supplies: A Technician's Guide before purchasing it in order to gage whether or not it would be worth my time, and all praised DC Power Supplies: A Technician's Guide:

1 of 1 people found the following review helpful. Invaluable Bench Top ReferenceBy Dr. Philip JohnsonEarly electronic devices needed a high voltage supply to power their thermionic valves. The invention of the transistor changed that as they required low voltages to operate. While many devices were battery powered, for many applications a low voltage, DC power supply is required. In order to select the right power supply for a given application one must understand how these devices operate.This book covers all the background theory in addition to being a practical guide to building your own custom power supplies, be they high or low voltage, portable or stationary. One word of caution, however, the chapter on batteries does not include lithium-ion or lithium polymer cells. Lithium cells behave significantly differently from Ni-Cd cells, and the amateur would be wise not to attempt to

construct chargers for this category of cells based on the circuitry described in Chapter 5 of the book. Perhaps the author will consider this for the next revision. Then this review can be upgraded to all five stars.2 of 2 people found the following review helpful. Surprised and satisfiedBy YSS127I purchased this book by Carr to refresh a few things I learned several decades in the past.When I received the book I glanced through it and thought about returning it because did not appear to be what I wanted. I did not return it and it laid around for a couple of months and I thought I would then donate it to the local library.I decided to glance through it one last time. This time I hit several of the right pages and am very glad I had not returned the book.It was just what I was looking for to refresh. This book would also be very good for someone just out of school with little experience.I have several Carr books and found each valuable.0 of 0 people found the following review helpful. Five StarsBy CustomerItem as described. Would buy again.

Design any internal or external DC power supply. Sharpen your technical mastery of dc power supplies and keep your electronics career on the fast track with DC Power Supplies, by Joseph J. Carr. It's your complete, on-to-the-job guide to building virtually every kind of internal and external dc power supply - high-voltage, remote, portable and emergency. You'll hone your skills with build-it-yourself projects and work with real-world components and values to: Design and build flawless power supply architectures. Ensure electrical safety. Understand batteries - from voltaic cells to gel-cell units. Generate alternating current. Protect transistors and IC regulators. Master switching, monitoring, metering and control. Deploy and testmtransformers. Operate and select rectifiers. Apply ripple filter circuits. And much more.

From the Back CoverSkill-building projects give you the hands-on experience you need to become proficient in all kinds of dc power supplies To succeed in electronics, you must understand dc power supplies. From the guru of accessible, technician-level electronics volumes, here is the most comprehensive, up-to-date benchtop reference to virtually every kind of internal and external dc power supply. You get down-to-earth coverage of all the necessary theory, as well as loads of practical, build-it-yourself projects and instructive experiments. Using widely available, real-world components and component values, these hands-on experiments and practical projects allow you to put into practice the theory just reviewed. There is no better way for you to truly master dc power supplies. Carr gives you helpful advice on power supply construction and protection, and offers a wealth of effective troubleshooting techniques. Other topics covered include: Basic electrical concepts; Metering and control circuity; Electrical safety; Batteries; Transformers; Rectifiers (operation, selection, circuits); Ripple filtering; Power supply protection.About the AuthorJoseph J. Carr was a leading electronics author who has written scores of well-reviewed books and technical articles. An electrical engineer and experienced electronics bench technician with CET and CCE certifications, Carr is a former winner of ISCET's Technician of the Year award. Also a columnist for several prestigious publications, including Nuts Volts, Carr's other best-selling books include DC Power Supplies: A Technician's Guide; Practical Antenna Handbook, Second Edition; Mastering IC Electronics; and Old Time Radios!