



Polymer Composite Capacitors for Pulse Power Applications

By Balasubramanian, Shiva

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Methods and Characterization | There is an ever increasing demand for high energy density storage devices for pulse power applications. Polymer composites offers a solution as it incorporates the high charge storage capability of the filler particles with graceful failure mechanisms of the matrix polymer. A significant challenge in realizing the potential of these systems is the poor interaction between the filler particles and the polymer. This work attempts to develop a composite with novel mixed metal phosphonate fillers. These fillers have been observed to better disperse in the polymer matrix compared to unmodified and surface-modified fillers. In addition, an embedded-sphere method was developed to measure dielectric breakdown strength in composites. This technique helped in minimizing low-field breakdown events due to the deleterious effects of the surrounding medium. A combination of these approaches has resulted in a 3-fold increase in stored electrical energy in composites over plain polymer. | Format: Paperback | Language/Sprache: english | 152 pp.



READ ONLINE
[7.51 MB]

Reviews

If you need to adding benefit, a must buy book. It normally fails to cost a lot of. Its been designed in an extremely easy way in fact it is just right after i finished reading through this ebook by which basically transformed me, change the way i believe.

-- **Vernon Ritchie**

This book is definitely not effortless to start on looking at but really exciting to see. It really is simplistic but surprises from the 50 % from the pdf. I am just effortlessly can get a delight of looking at a published book.

-- **Thurman Schamberger**

Related Books



[There Is Light in You](#)

Changing Minds Online, LLC, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.There is Light in You is a collection of bedtime stories written by women who have a...



[50 Green Smoothies for Weight Loss, Detox and the 10 Day Green Smoothie Cleanse: A Guide of Smoothie Recipes for Health and Energy](#)

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.A Smoothie recipe book for everybody!! Smoothies have become very popular in the last 10 years or...



[Some of My Best Friends Are Books : Guiding Gifted Readers from Preschool to High School](#)

Book Condition: Brand New. Book Condition: Brand New.



[What is in My Net? \(Pink B\) NF](#)

Pearson Education Limited. Book Condition: New. This title is part of Pearson's Bug Club - the first whole-school reading programme that joins books and an online reading world to teach today's children to read. In this book, Zac and Daisy are fishing....



[Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities](#)

HarperCollins Publishers Inc, United States, 2016. Paperback. Book Condition: New. Reprint. 203 x 135 mm. Language: English . Brand New Book. An international bestseller, Barbara Coloroso's groundbreaking and trusted guide on bullying-including cyberbullying-arms parents and teachers with real solutions for a...



[Children's Handwriting Book of Alphabets and Numbers: Over 4,000 Tracing Units for the Beginning Writer](#)

Createspace, United States, 2015. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.The Children's Handwriting Book of Alphabets and Numbers provides extensive focus on alphabet tracing and number tracing for the...