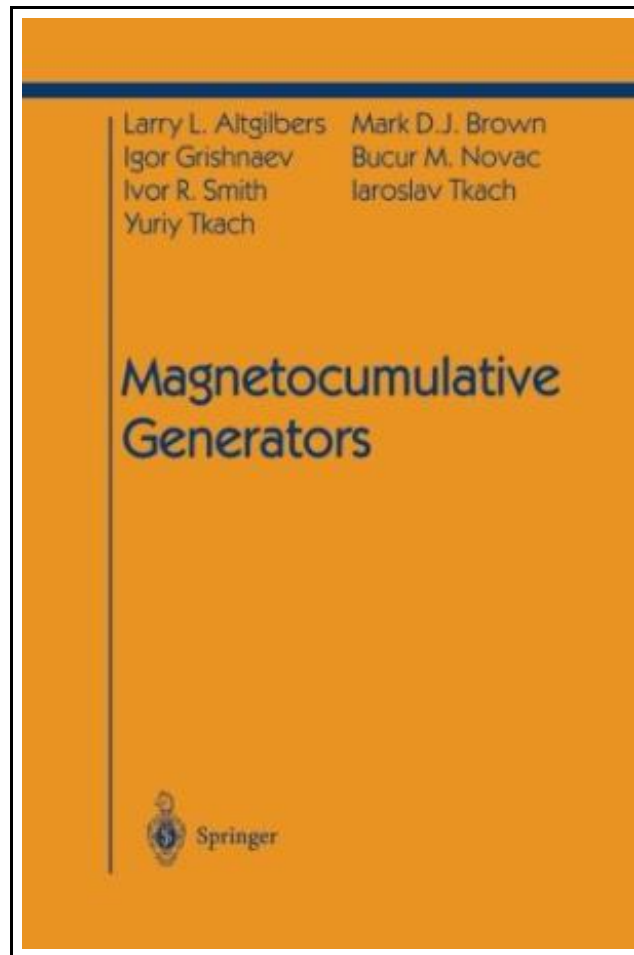


Magnetocumulative Generators



Filesize: 5.64 MB

Reviews

This ebook is wonderful. Of course, it really is perform, nevertheless an interesting and amazing literature. Its been printed in an extremely straightforward way and it is simply after i finished reading this ebook where in fact changed me, modify the way i believe.

(Prof. Maxwell Stracke)

MAGNETOCUMULATIVE GENERATORS

DOWNLOAD



Book Condition: New. Publisher/Verlag: Springer, Berlin | A discussion of explosive pulsed power systems and their applications, this book consists of 7 chapters. The first five describe the basic physics of these sources and their ancillary equipment, based on a manual for training engineers in Russia. Chapter 6 is a description of codes and methodologies used at Loughborough University in the UK to build flux compressors, while Chapter 7 covers two specific applications: high power lasers and high power microwave sources. The book introduces all types of explosive power sources and their ancillary equipment, the procedures required to build them, and specific applications. | 1 Explosive-Driven Power Sources.- 1.1 Introduction.- 1.2 Overview of Explosive-Driven Power Sources.- 1.3 Magnetocumulative Generator History.- 1.4 Electromagnetic Theory.- 1.4.1 Field Theory: Maxwell's Equations.- 1.4.2 Circuit Equations: Kirchhoff's Equations.- 1.5 Electromagnetic Phenomena.- 1.5.1 Magnetic Pressure and Diffusion.- 1.5.2 Magnetic Force.- 1.5.3 Magnetic Pressure.- 1.5.4 Electric Fields.- 1.6 Shock and Detonation Waves.- 1.7 Explosives and Explosive Components.- 1.7.1 Categories of Explosives.- 1.7.2 Explosive Components.- 1.8 Introduction to MCGs.- 1.8.1 Circuit Equations.- 1.8.2 Field Equations.- 1.8.3 Magnetocumulative Generator Performance.- References.- 2 Magnetocumulative Generator Physics and Design.- 2.1 Conditions That Affect Magnetic Field Compression.- 2.1.1 Field Diffusion.- 2.1.2 Liner Compressibility.- 2.1.3 Conductivity Change.- 2.1.4 Surface Instability.- 2.2 Theory of Magnetocumulative Current Generators.- 2.3 Current Generator Design Issues.- 2.3.1 Eliminating Electric Breakdown.- 2.3.2 Increasing the Energy Amplification Factor.- 2.3.3 Delivering the Maximum Possible Energy to the Load.- 2.3.4 Attaining the Maximum Possible Gain.- 2.3.5 Unconstrained Energy Amplification.- References.- 3 Magnetocumulative Generators.- 3.1 Introduction.- 3.2 Classifications of MCGs.- 3.3 Coaxial MCGs.- 3.4 Spiral (Helical) MCGs.- 3.5 Plate MCGs.- 3.6 Loop MCGs.- 3.7 Disk MCGs.- 3.8 Semiconductor MCGs.- 3.8.1 Theory of Operation.- 3.8.2 SWMCG Working Substances.- 3.8.3 SWMCG Designs.- 3.9 Cascaded MCGs.- 3.10 Short-Pulse MCGs.- References.- 4 Pulse-Forming Networks.- 4.1 High-Speed Opening...



[Read Magnetocumulative Generators Online](#)



[Download PDF Magnetocumulative Generators](#)

You May Also Like



The Old Testament Cliffs Notes

Cliffs Notes. Paperback. Book Condition: New. Paperback. 96 pages. Dimensions: 8.1in. x 5.1in. x 0.3in. The original CliffsNotes study guides offer expert commentary on major themes, plots, characters, literary devices, and historical background. The latest generation...

[Download ePub »](#)



Would It Kill You to Stop Doing That?

Book Condition: New. Publisher/Verlag: Little, Brown Book Group | A Modern Guide to Manners | A laugh-out-loud guide to modern manners by acclaimed humorist, author, and Vanity Fair columnist Henry Alford. | A few years...

[Download ePub »](#)



The Princess and the Frog - Read it Yourself with Ladybird

Paperback. Book Condition: New. Not Signed; A kind frog helps a princess and she makes him a promise. What happens when the king tells her that she has keep her promise? Read it yourself with...

[Download ePub »](#)



Violet Rose and the Surprise Party

Book Condition: New. Publisher/Verlag: Nosy Crow | With activities, 3D press-out models and over 175 stickers! Plus free games and printables online! | When busy rabbit, Violet Rose, discovers that her friend Lily has a...

[Download ePub »](#)



The Kid

Paperback. Book Condition: New. Not Signed; Winky thought he'd seen everything in Wyoming Territory: rustlers, hangings, shoot-outs, cattle standing frozen stiff in the snow. Then into town one lazy day rode a long-haired kid and...

[Download ePub »](#)