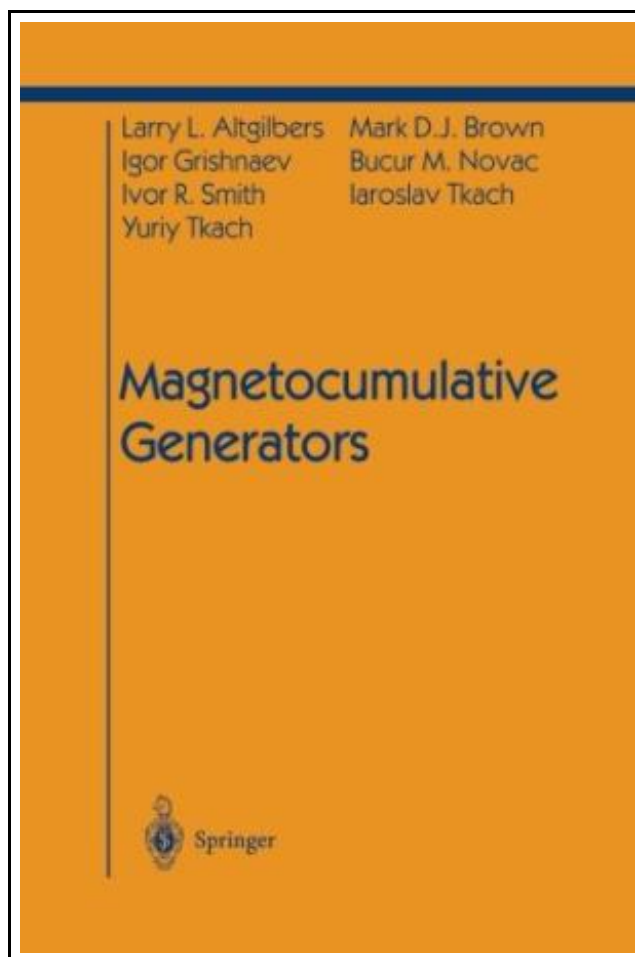


Magnetocumulative Generators



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This publication will be worth purchasing. It really is written in simple terms instead of difficult to understand. It has been designed in an exceptionally simple way and is particularly only right after I finished reading this ebook in which basically modified me, alter the way I believe.

(Prof. Loyce Runolfsson Jr.)

MAGNETOCUMULATIVE GENERATORS



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...



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