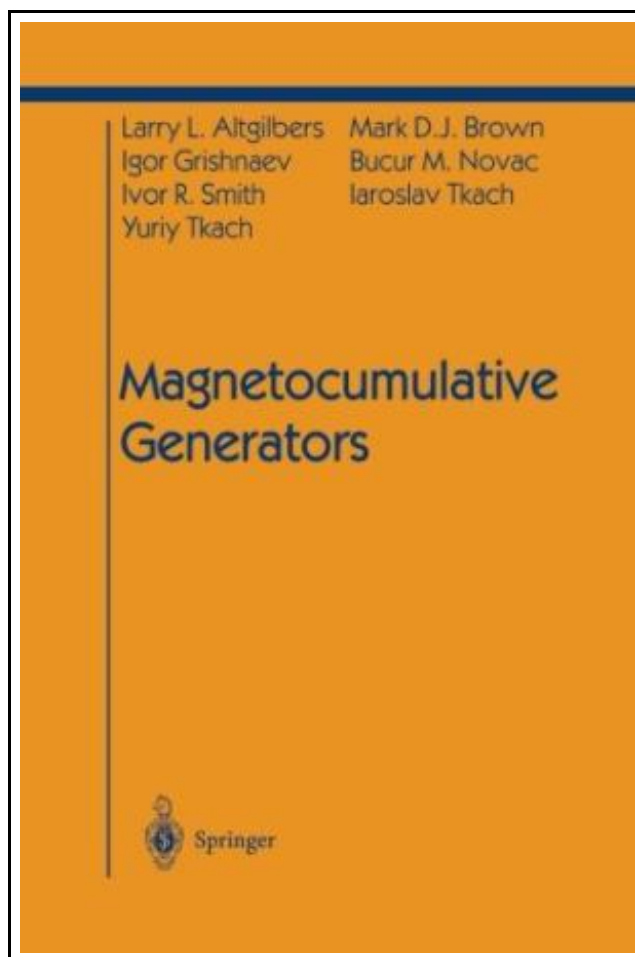


Magnetocumulative Generators



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Reviews

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(Prof. Nicole Zieme)

MAGNETOCUMULATIVE GENERATORS



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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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