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Descrizione fisica	1 online resource (X, 263 p. 181 illus., 90 illus. in color.)
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Soggetti	Pulsed power systems Electric generators - Alternating current Electrical engineering
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Overview of High-Power Pulsed Power Supply -- Basic Theories of Pulsed Alternators -- Electromagnetic Design of Pulsed Alternators -- Thermal Management of Pulsed Alternators -- Mechanical Performance of Pulsed Alternators -- Controlling Technology for Pulsed Alternators -- Electromagnetic Weapon Load of Pulsed Power Supply -- Pulsed Power Switch Components -- Pulsed Alternator Drive system.
Sommario/riassunto	This book focuses on pulsed alternators design and applications. Both principles and design methods have been addressed. This is achieved by providing in-depth study on a number of major topics such as electrical design, thermal management, mechanical analysis, and special application. The research results and practical experience accumulated in the preliminary research, the National Natural Science Foundation of China and other major cooperative projects. Taking the pulse alternator as the core component, the entire pulse alternator system is systematically introduced, including the electromagnetic design, thermal management analysis, mechanical performance analysis of the pulse alternator, the introduction of the electromagnetic weapon load, the control technology of the pulse alternator power system, and the elaboration of other key components of the power system. This motor has been researched at home and abroad, but this

book is the first international monograph on the field of pulse
alternators in this field, which has very important academic value and
reference value. The book benefits researchers, engineers, and
graduate students in fields of electrical engineering, pulsed power, etc.
