

1. Record Nr.	UNINA9910872611003321
Titolo	1998 Twenty-Third International Power Modulator Symposium
Pubbl/distr/stampa	[Place of publication not identified], : IEEE, 1998
Descrizione fisica	1 online resource (400 pages)
Disciplina	621.381536
Soggetti	Modulators (Electronics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	<p>Conference Record of the Twenty-Third International Power Modulator Symposium (Cat. No. 98CH36133) -- Developments in the NLC modulator R&amp;D program at SLAC -- Magnetic flux compression generators (MCGs) -- An all solid state pulse power source for high PRF induction accelerators -- Power Electronics Building Blocks and potential power modulator applications -- Industrial application of high power linac by Titan Beta -- Power modulators for control of transient plasmas for environmental applications -- Investigation of a pulsed corona reactor for heavy-duty diesel engine emissions reduction -- Hot biogas conditioning using pulsed corona -- The use of pulsed electric fields for biofouling prevention and for medical applications -- A comparison of the destruction of E. Coli O157:H7 in ground beef using pulsed X-rays and gamma rays -- Preconceptual design requirements for the X-1 Advanced Radiation Source -- Alternator power conditioning for launchers -- Harmonic free rectification with unity power factor for multi-megawatt applications -- Detailed modeling of the Limpaecher-design resonant power converter -- Pulse generator for biofouling prevention -- As-built design, installation, and test of a pulsed, high-power, high-voltage video load for the ALCOR transmitter -- Modulator considerations for the SNS RF system -- Injection kicker modulator in 2 GeV Pohang Light Source -- An updated history of the thyratron lifetimes at the Stanford Linear Accelerator Center -- SLAC modulator system improvements and reliability results -- AIRIX and PIVAIR accelerator status -- Improving ion beam injector performance by augmenting capacitance of vacuum diode -- An elegant impulser</p>

developed for flat beam injection -- A modulator for advanced klystrons -- Kick sensitivity analysis for the LHC inflectors -- Improvements of the APS storage ring klystron power supplies -- High gain GaAs photoconductive semiconductor switches: switch longevity -- Plug and play solid state switching systems for laser applications -- Evaluation of 5500 V-class Si-thyristor as pulsed power switching device utilizing a low inductance testing circuit -- An IGBT-based switch as replacement for thyratrons in Doppler radar transmitters -- Analysis of metalized 4H-SiC for high-temperature electric weapon applications -- Prospect of soft switching power converter technologies -- Sub-microsecond pulse switching characteristics of a 4500-V IEGT -- Pulse operation of involute gate 125 mm thyristor -- Improved turn-on characteristics of fast high current thyristors -- Improved semiconductor switches, for pulse power applications -- Photoswitch material recombination effects on the injection wave generator -- Progress in the development of stacked Blumlein pulsers commutated by photoconductive switches -- Parts obsolescence mitigation in the Harpoon modulator -- Progress toward a compact, high power ultra-wideband array using gallium arsenide photoconductive semiconductor switches -- Solid-state pulsed power systems -- Versatile high voltage solid state MOSFET modulators for driving RF sources -- A solid-state push-pull grid driver for high power tetrodes -- Experimental investigation of dynistors and dynistor based pulsers -- Solid-state switch modulator deck for the MIT-Bates S band transmitter -- Progress in enhanced triggering and increasing of hold-off voltage capability with pseudospark plasma switches -- A radial multichannel pseudospark switch for high voltage and high current applications -- The performance of a sealed hollow electrode switch in a high repetition rate test circuit -- Cold-cathode high-power thyratron for high-Coulomb switching applications -- Design of a 100 kV, 200 ampere, 2 kilohertz single "Hobetron" tube modulator for industrial plasma source ion implantation applications -- Design considerations in corona stabilised high repetition rate switches -- An investigation into high speed gas breakdown [in pulsed power switches] -- Performance and test results of a regulated magnetron pulser -- A regulated magnetron pulser -- Development of a high voltage, high PRF PFN Marx generator -- Spectroscopic investigations in the dense discharge plasma of pseudospark switches -- High frequency breakdown characteristics of various electrode geometries in air -- An application of piezoelectric wave converters for high voltage isolation and power transmission -- Applied electromagnetics design education in modulators and power electronics-at the undergraduate level -- Inductance calculations for air core foil wound transformers -- Design, construction and test of a 3-phase cryogenic synchronous rectifier -- The capacitor charging power supply for the next-generation linear collider -- Advanced power conversion using a switch matrix -- Endurance test circuit for power capacitors -- Transformer fault protection for low impedance faults -- Insertion transformer modeling for improved high voltage regulation of a partial discharge analyzer for dielectric voltage breakdown analysis -- Modulator system component reliability optimization through monitoring microdischarge activity -- Feasibility of a 8 kW/kg, 5 minute thermal battery.

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