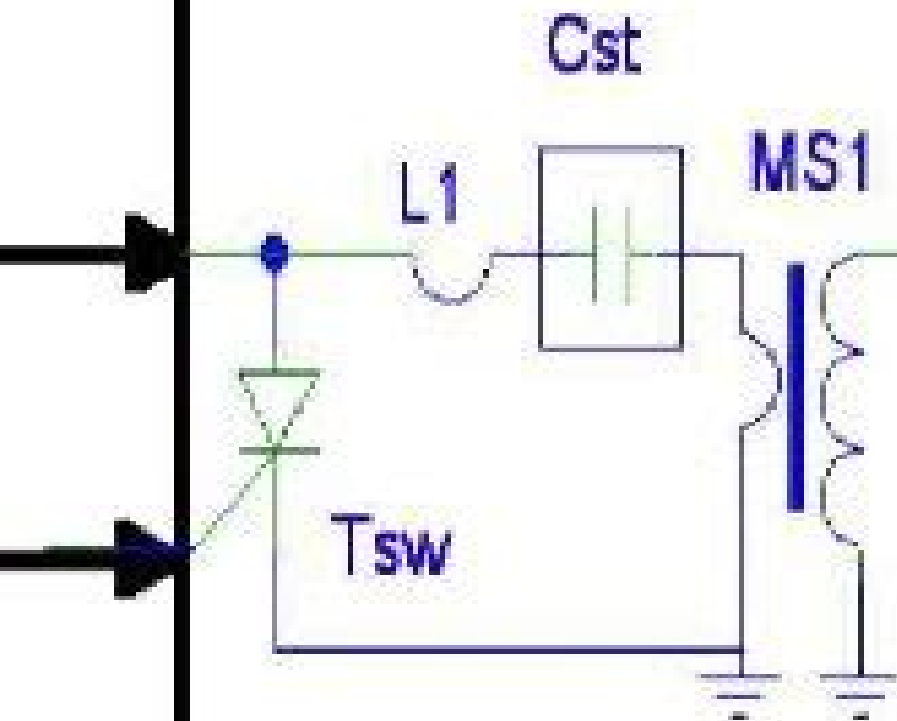
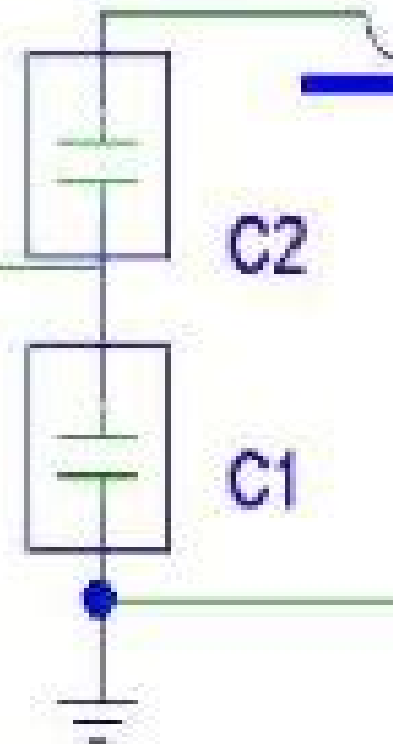


## First stage magnetic pulse compression



## Second stage pulse compression



# High Power Semiconductor Magnetic Pulse

**National Science Foundation (U.S.).  
Panel on Large Magnetic Fields**



## **High Power Semiconductor Magnetic Pulse:**

**A High-power Semiconductor-magnetic Pulse-generator Circuit** Godfrey T. Coate, Laurence R. Swain, Rolando Luis Jordan, MASSACHUSETTS INST OF TECH CAMBRIDGE ELECTRONIC SYSTEMS LAB., Massachusetts Institute of Technology. Electronic Systems Laboratory, 1964 A circuit for generating high power high voltage pulse trains is described that uses silicon controlled rectifiers for high current low voltage power switching and inductors and transformers having saturable magnetic cores for high voltage high speed switching Figures of merit for saturable inductor switches and a measure of power switching capacity for controlled rectifiers are determined which provide a characterization of these devices that is especially useful for design purposes A step by step circuit design procedure is presented that is flexible enough so that selected performance attributes such as smallest size and weight or highest efficiency can be emphasized by the designer A laboratory breadboard semiconductor magnetic pulse generator producing 1700 average watts in 1.6 microsecond pulses of over 1 megawatt peak power is described as an illustration of the circuit technique Author

**High-power Semiconductor-magnetic Pulse Generators** Godfrey T. Coate, Laurence R. Swain, 1966 High-power Semiconductor-magnetic Pulse Generators Godfrey T. Coate, 1966 Technical Abstract Bulletin, 1964 **Official Gazette of the United States Patent Office** United States. Patent Office, 1964 Induction Accelerators Ken Takayama, Richard J. Briggs, 2010-10-05 A broad class of accelerators rests on the induction principle whereby the accelerating electrical fields are generated by time varying magnetic fluxes Particularly suitable for the transport of bright and high intensity beams of electrons protons or heavy ions in any geometry linear or circular the research and development of induction accelerators is a thriving subfield of accelerator physics This text is the first comprehensive account of both the fundamentals and the state of the art about the modern conceptual design and implementation of such devices Accordingly the first part of the book is devoted to the essential features of and key technologies used for induction accelerators at a level suitable for postgraduate students and newcomers to the field Subsequent chapters deal with more specialized and advanced topics *Scientific and Technical Aerospace Reports*, 1994 **Opening Switches** A.H. Guenther, T. Martin, M. Kristiansen, 2012-12-06 Pulsed power technology in the simplest of terms usually concerns the storage of electrical energy over relatively long times and then its rapid release over a comparatively short period However if we leave the definition at that we miss a multitude of aspects that are important in the ultimate application of pulsed power It is in fact the application of pulsed power technology to which this series of texts will be focused Pulsed power in today's broader sense means special power as opposed to the traditional situation of high voltage impulse issues related to the utility industry Since the pulsed power field is primarily application driven it has principally engineering flavor Today's applications span those from materials processing such as metal forming by pulsed magnetic fields to commercial applications such as psychedelic strobe lights or radar modulators Very high peak power applications occur in research for inertial confinement fusion and the Strategic Defense Initiative and other historical

defense uses In fact it is from this latter direction that pulsed power has realized explosive growth over the past half century Early thrusts were in electrically powered systems that simulated the environment or effects of nuclear weapons detonation More recently it is being utilized as prime power sources for directed energy weapons such as lasers microwaves particle beam weapons and even mass drivers kinetic energy weapons

Neural Engineering Bin He, 2020-09-21 This third edition overviews the essential contemporary topics of neuroengineering from basic principles to the state of the art and is written by leading scholars in the field The book covers neural bioelectrical measurements and sensors EEG signal processing brain computer interfaces implantable and transcranial neuromodulation peripheral neural interfacing neuroimaging neural modelling neural circuits and system identification retinal bioengineering and prosthetics and neural tissue engineering Each chapter is followed by homework questions intended for classroom use This is an ideal textbook for students at the graduate and advanced undergraduate level as well as academics biomedical engineers neuroscientists neurophysiologists and industry professionals seeking to learn the latest developments in this emerging field

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Modern Microwave and Millimeter Wave Power Electronics provides systems designers engineers and researchers especially those with primarily solid state training with a thoroughly up to date survey of the rich field of microwave vacuum electronic device MVED technology This book familiarizes the R D and academic communities with the capabilities and limitations of MVED and highlights the exciting scientific breakthroughs of the past decade that are dramatically increasing the compactness efficiency cost effectiveness and reliability of this entire class of devices This comprehensive text explores a wide range of topics

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**EUV Sources for Lithography** Vivek Bakshi, 2006 This comprehensive volume edited by a senior technical staff member at SEMATECH is the authoritative reference book on EUV source technology The volume contains 38 chapters contributed by leading researchers and suppliers in the EUV source field Topics range from a state of the art overview and in depth explanation of EUV source requirements to fundamental atomic data and theoretical models of EUV sources based on discharge produced plasmas DPP and laser produced plasmas to a description of prominent DPP and LPP designs and other technologies for producing EUV radiation Additional topics include EUV source metrology and components collectors electrodes debris mitigation and mechanisms of component erosion in EUV sources The volume is intended to meet the needs of both practitioners of the technology and readers seeking an introduction to the subject

**Microwave Tube Transmitters** L. Sivan, 1994-09-30 This book fulfills the needs of engineers and technicians who specify procure design develop test manufacture operate and service tubes power supply modulators and complete transmitters for radar ECM and communications and broadcast systems The material in the book is also applicable to microwave transmitters for scientific applications

**Particle Physics Reference Library** Stephen Myers, Herwig Schopper, 2020-05-27 This third open access volume of the handbook series deals with accelerator physics design technology and operations as well as with beam optics dynamics and diagnostics A joint CERN Springer initiative the Particle Physics Reference Library provides revised and updated contributions based on previously published material in the well known Landolt Boernstein series on particle physics accelerators and detectors volumes 21A B1 B2 C which took stock of the field approximately one decade ago Central to this new initiative is publication under full open access

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Report of NSF Panel on Large Magnetic Fields National Science Foundation (U.S.). Panel on Large Magnetic Fields,1988

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