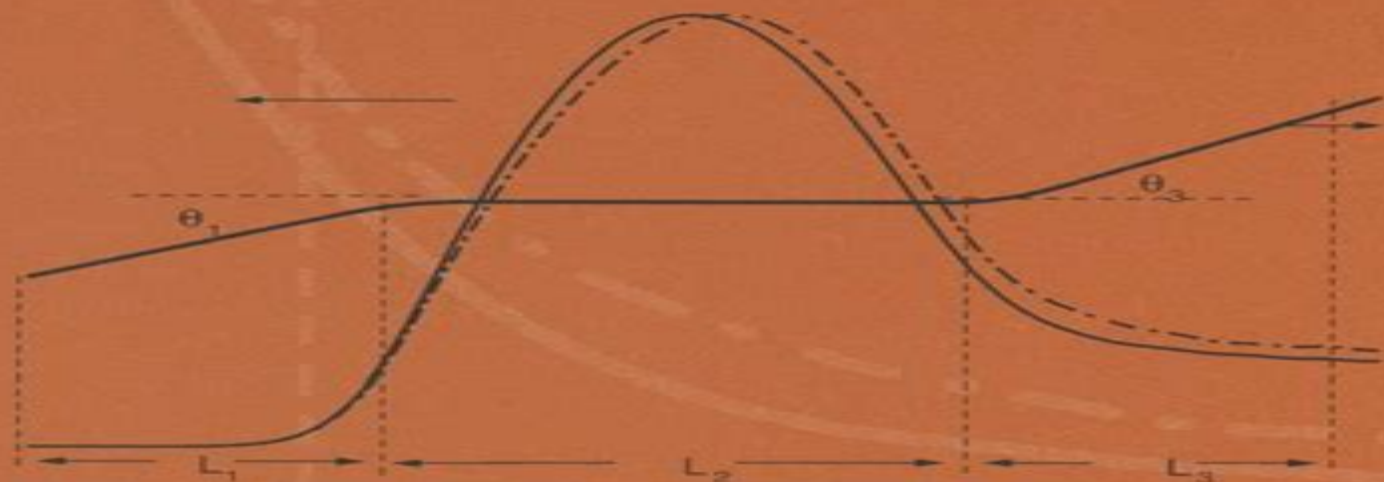


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E. Borie
M.K.A. Thumm

Gyrotrons

High-Power Microwave
and Millimeter Wave Technology



Springer

Gyrotrons High Power Microwave And Millimeter Wave Technology

Kalaria, Parth Chandulal



Gyrotrons High Power Microwave And Millimeter Wave Technology:

Gyrotrons Machavaram V. Kartikeyan, Edith Borie, Manfred Thumm, 2013-03-14 Gyrotron oscillators gyrotrons are capable of providing hundreds of kilo watts of power at microwave and millimetric wavelengths From their conception in the late fifties until their successful development for various applications gyrotrons have come a long way technologically and made an irreversible impact on both users and developers The possible applications of high power millimeter and sub millimeter waves from gyrotrons and their variants gyro devices span a wide range of technologies The plasma physics community has already taken advantage of the recent advances of gyrotrons in the areas of RF plasma production heating non inductive current drive plasma stabilization and active plasma diagnostics for magnetic confinement thermonuclear fusion research such as lower hybrid current drive LHCD 8 G Hz electron cyclotron resonance heating ECRH 28 170 G Hz electron cyclotron current drive ECCD collective Thomson scattering CTS and heat wave propagation experiments Other important applications of gyrotrons are electron cyclotron resonance ECR discharges for the generation of multi charged ions and soft X rays as well as industrial materials processing and plasma chemistry Submillimeter wave gyrotrons are employed in high frequency broadband electron paramagnetic resonance EPR spectroscopy Additional future applications await the development of novel high power gyro amplifiers and devices for high resolution radar ranging and imaging in atmospheric and planetary science as well as deep space and specialized satellite communications and RF drivers for next generation high gradient linear accelerators supercolliders

State-of-the-Art of High Power Gyro-Devices and Free Electron Masers. Update 2016 (KIT Scientific Reports ; 7735) Thumm, Manfred, 2017-07-19 **Time-dependent spectrum analysis of high power gyrotrons** Schlaich, Andreas, 2015-08-06 In this work a novel measurement system for the analysis of the gyrotron RF output spectrum was developed It enables unprecedented time dependent measurements within a large bandwidth dynamic range and unambiguous RF indication in the entire D Band 110 170 GHz Special attention was given to the investigation of parasitic RF oscillations and the analysis of the interplay of thermal cavity expansion and ionization based space charge neutralization at the start of long RF pulses

State-of-the-Art of High Power Gyro-Devices and Free Electron Masers. Update 2015 (KIT Scientific Reports ; 7717) Thumm, Manfred, 2016-08-29 Soft Computing Methods for Microwave and Millimeter-Wave Design Problems Narendra Chauhan, M.V. Kartikeyan, Ankush Mittal, 2012-02-09

The growing commercial market of Microwave Millimeter wave industry over the past decade has led to the explosion of interests and opportunities for the design and development of microwave components The design of most microwave components requires the use of commercially available electromagnetic EM simulation tools for their analysis In the design process the simulations are carried out by varying the design parameters until the desired response is obtained The optimization of design parameters by manual searching is a cumbersome and time consuming process Soft computing methods such as Genetic Algorithm GA Artificial Neural Network ANN and Fuzzy Logic FL have been widely used by EM

researchers for microwave design since last decade The aim of these methods is to tolerate imprecision uncertainty and approximation to achieve robust and low cost solution in a small time frame Modeling and optimization are essential parts and powerful tools for the microwave millimeter wave design This book deals with the development and use of soft computing methods for tackling challenging design problems in the microwave millimeter wave domain The aim in the development of these methods is to obtain the design in small time frame while improving the accuracy of the design for a wide range of applications To achieve this goal a few diverse design problems of microwave field representing varied challenges in the design such as different microstrip antennas microwave filters a microstrip via and also some critical high power components such as nonlinear tapers and RF windows are considered as case study design problems Different design methodologies are developed for these applications The presents soft computing methods their review for microwave millimeter wave design problems and specific case study problems to infuse better insight and understanding of the subject

State-of-the-Art of High-Power Gyro-Devices - Update of Experimental Results 2023 (KIT Scientific Reports ; 7765)

Thumm, Manfred,2024-02-06 This report presents an update of the experimental achievements published in the review State of the Art of High Power Gyro Devices and Free Electron Masers Journal of Infrared Millimeter and Terahertz Waves 41 No 1 pp 1 140 2020 and in the KIT Scientific Report 7761 2021 related to the development of gyro devices Tables 2 34 Emphasis is on high power gyrotron oscillators for long pulse or continuous wave CW operation and pulsed gyrotrons for any applications

State-of-the-Art of High Power Gyro-Devices and Free Electron Masers. Update 2017 (KIT Scientific Reports ; 7750)

Thumm, Manfred,2018-06-04 **State-of-the-Art of High-Power Gyro-Devices. Update of Experimental Results 2021. (KIT Scientific Reports ; 7761)** Thumm, Manfred,2021-10-28 This report presents an update of the experimental achievements published in the review State of the Art of High Power Gyro Devices and Free Electron Masers Journal of Infrared Millime ter and Terahertz Waves 41 No 1 pp 1 140 2020 related to the development of gyro devices Tables 2 34 Emphasis is on high power gyrotron oscillators for long pulse or continuous wave CW operation and pulsed gyrotrons for any applications

High Energy Density and High Power RF David K. Abe,Gregory S. Nusinovich,2006-01-04 This is the seventh in a series of international workshops on high power and high energy density microwave devices for accelerator plasma physics and defense applications The scope of this workshop included accelerators for high energy physics plasma heating and current drive in controlled thermonuclear fusion research radar and directed energy high power microwave systems THz sources and technologies and advanced 2D 3D computational tool development Microwave and RF Vacuum Electronic Power Sources Richard G. Carter,2018-04-12 Do you design and build vacuum electron devices or work with the systems that use them Quickly develop a solid understanding of how these devices work with this authoritative guide written by an author with over fifty years of experience in the field Rigorous in its approach it focuses on the theory and design of commercially significant types of gridded linear beam crossed field and fast wave tubes Essential components such as

waveguides resonators slow wave structures electron guns beams magnets and collectors are also covered as well as the integration and reliable operation of devices in microwave and RF systems Complex mathematical analysis is kept to a minimum and Mathcad worksheets supporting the book online aid understanding of key concepts and connect the theory with practice Including coverage of primary sources and current research trends this is essential reading for researchers practitioners and graduate students working on vacuum electron devices

Microwave and Millimeter-Wave Vacuum Electron Devices: Inductive Output Tubes, Klystrons, Traveling-Wave Tubes, Magnetrons, Crossed-Field Amplifiers, and Gyrotrons

A.S. Gilmour, Jr., 2020-04-30 Written by an internationally recognized as an expert on the subject of microwave MW tubes this book presents and describes the many types of microwave tubes and despite competition from solid state devices those using GaN SiC et cetera which continue to be used widely and find new applications in defense communications medical and industrial drying Helix traveling wave tubes TWTs as well as coupled cavity TWTs are covered Klystrons and how they work are described along with the physics behind it and examples of devices and their uses Vacuum electron devices are explained in detail and examines the harsh environment that must exist in tubes if they are to operate properly The secondary emission process and its role in the operation of crossed field devices is also discussed The design of collectors for linear beam tubes including power dissipation and power recovery are explored Discussions of important noise sources and techniques that can be used to minimize their effects are also included Presented in full color this book contains a balance of practical and theoretical material so that those new to microwave tubes as well as experienced microwave tube technicians engineers and managers can benefit from its use

Plasma Science and Technology Aamir Shahzad, 2022-02-23 Plasma science and technology PST is a discipline investigating fundamental transport behaviors interaction physics and reaction chemistry of plasma and its applications in different technologies and fields Plasma has uses in refrigeration biotechnology health care microelectronics and semiconductors nanotechnology space and environmental sciences and so on This book provides a comprehensive overview of PST including information on different types of plasma basic interactions of plasma with organic materials plasma based energy devices low temperature plasma for complex systems and much more

Electron Gun for Gyrotrons Udaybir Singh, A. K. Sinha, 2022-08-22 This book highlights the emission transmission and launching of an electron beam It presents an overview and recent advances in order to enhance knowledge in the field of gyrotron in general and electron gun in particular The book is presented in seven chapters starting with the introduction and ending with future possible directions in the field of electron beams and gyrotrons

Design Studies Towards a 4 MW 170 GHz Coaxial-cavity Gyrotron

Matthias Hermann Beringer, 2014-08-20 In this work the feasibility of a 4 MW 170 GHz coaxial cavity gyrotron for continuous wave operation is demonstrated For the first time complete physical designs of the major gyrotron components are elaborated In a first step one possible new operating mode is determined followed by the development of detailed physical designs of the major gyrotron components Diode and triode type electron gun coaxial cavity

two beam quasi optical output coupler and depressed collector **High Power Microwaves** James Benford, Edl Schamiloglu, Jacob Coty Stephens, John A. Swegle, Peng Zhang, 2024-12-19 Following in the footsteps of its popular predecessors High Power Microwaves Fourth Edition continues to provide a wide angle integrated view of the field of high power microwaves HPMs This fourth edition includes significant updates in every chapter as well as a new chapter on High Power Amplifiers Written by a range of experimentalists theorists and applied theorists the book offers complementary perspectives on different source types The authors address How HPM relates historically and technically to the conventional microwave field The possible applications for HPM and the key criteria that HPM devices have to meet in order to be applied How high power sources work including their performance capabilities and limitations The broad fundamental issues to be addressed in the future for a wide variety of source types The book is accessible to several audiences Researchers currently in the field can widen their understanding of HPM Present or potential users of microwaves will discover the advantages of the dramatically higher power levels that are being made available Newcomers to the field can pursue further research Decision makers in direct energy acquisition and related fields such as radar communications and high energy physics can see how developments in HPM will affect them Key Features Discusses the key criteria that must be fulfilled for emerging applications of HPMs in addition to the HPM formulary of practical equations for everyday work Describes the broad fundamental issues for each class of HPM sources and clarifies HPM capabilities and limitations on performance Uses a format suitable for classroom instruction with updated problems in each chapter alongside references and guidance to the literature for readers seeking more details Solutions to the problems are available at [schamiloglu me com](http://schamiloglu.me.com) *A First 2 MW-Class (136)/170/204 GHz Multi-Frequency Gyrotron Pre-Prototype for DEMO: Design, Construction and Key Components Verification* Ruess, Tobias, 2023-10-26 Ein Gyrotron wird in magnetisch eingeschlossenen Plasmaexperimenten f r Heizung Stromtrieb Plasmastabilisierung und Plasmadiagnostik verwendet In dieser Arbeit wird der erste Entwurf und Bau eines Mehrfrequenz Mehrzweck Pre Prototyp Gyrotrons in koaxialer Technologie vorgestellt das bei 136 170 204 GHz mit einer Ausgangsleistung von 2 MW arbeitet Dies ist der erste Schritt zum Betrieb bei Frequenzen bis zu 240 GHz unter Verwendung der Koaxialhohlraum Gyrotrontechnologie A gyrotron is used in magnetically confined plasma experiments for heating current drive plasma stabilization and plasma diagnostics This work presents the first design and construction of a multi frequency multi purpose coaxial cavity pre prototype gyrotron operating at 136 170 204 GHz with an output power of 2 MW It is the first step towards operating frequencies up to 240 GHz using the coaxial cavity gyrotron technology

Feasibility and Operational Limits for a 236 GHz Hollow-Cavity Gyrotron for DEMO Kalaria, Parth Chandulal, 2017-11-08 The DEMONstration fusion power plant DEMO will be the first fusion reactor which is intended to generate net electrical power For successful operation of DEMO high power gyrotrons with operating frequencies up to 240 GHz are required for plasma heating and stabilization In this work a systematic feasibility study and tolerance analysis are performed for the

conventional type hollow cavity DEMO gyrotrons The various approaches are also suggested to identify its operational limits

Diffraction and Scattering in Launchers of Quasi-Optical Mode Converters for Gyrotrons Jens Hanspeter Flamm, 2014-06-17 In this work different methods for the calculation of diffraction and scattering in launchers of quasi optical mode converters for gyrotrons are compared ranked and extended The extension gives the opportunity to take a tapered average radius of the waveguide antenna into account The comparison and the extension of the fast field calculation methods for component synthesis opens the possibility to reduce diffraction and stray radiation of reliable and powerful millimeter wave sources *Electron Beams and Microwave Vacuum Electronics* Shulim E. Tsimring, 2006-10-25 This book focuses on a fundamental feature of vacuum electronics the strong interaction of the physics of electron beams and vacuum microwave electronics including millimeter wave electronics The author guides readers from the roots of classical vacuum electronics to the most recent achievements in the field Special attention is devoted to the physics and theory of relativistic beams and microwave devices as well as the theory and applications of specific devices **Hyperpolarization Methods in NMR Spectroscopy** Lars T. Kuhn, 2013-09-13 Elucidating Organic Reaction Mechanisms using photo CIDNP Spectroscopy by Martin Goez Parahydrogen Induced Polarization by Homogeneous Catalysis Theory and Applications by Kerstin M nnemann et al Improving NMR and MRI Sensitivity with Parahydrogen by R Mewis Simon Duckett The Solid state Photo CIDNP Effect by J rg Matysik et al Parahydrogen induced Polarization in Heterogeneous Catalytic Processes by Igor Koptug et al Dynamic Nuclear Polarization Enhanced NMR Spectroscopy by U Akbey H Oschkinat Photo CIDNP NMR Spectroscopy of Amino Acids and Proteins by Lars T Kuhn

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