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## Formation of microwave soliton combs under cyclotron resonance interaction of electron beam with counter-propagating waveguide mode

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# Guidedwaveproduced Plasmas

**Volodymyr Girka,Igor Girka,Manfred  
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## **Guided wave produced Plasmas:**

**Guided-Wave-Produced Plasmas** Yuri M. Aliev, H. Schlüter, A. Shivarova, 2000 Guided Wave Produced Plasmas provides an up to date report of the physics of plasmas produced by the high frequency electromagnetic fields of guided waves The modelling of discharges generated by travelling surface waves is presented using a unified approach based on modern aspects of nonlinear plasma theory Diagnostic methods needed for research and the main experimental results on plasma behaviour are covered in detail The methods and ideas presented in this book possess great potential for a wide variety of applications in plasma technology

**Guided-Wave-Produced-Plasmas** A. Shivarova, SOFIA UNIV (Bulgaria) FACULTY OF PHYSICS., 2003 The abstract of a topical lecture on diffusion controlled gas discharges sustained in the field of travelling waves is presented in this contribution Based on discharge models within the fluid plasma theory the maintenance of discharges without and in external magnetic field is discussed The mechanisms of the discharge self consistency and of the electron heating are shown The final results from the models are for the self consistent axial structure of the discharges

*Guided-Wave-Produced Plasmas* Yu. M. Aliev, H. Schlüter, A. Shivarova, 2012-12-06 Guided Wave Produced Plasmas provides an up to date report of the physics of plasmas produced by the high frequency electromagnetic fields of guided waves The modelling of discharges generated by travelling surface waves is presented using a unified approach based on modern aspects of nonlinear plasma theory Diagnostic methods needed for research and the main experimental results on plasma behaviour are covered in detail The methods and ideas presented in this book possess great potential for a wide variety of applications in plasma technology

*Surface Flute Waves in Plasmas* Igor Girka, Manfred Thumm, 2022-04-26 This book presents a comprehensive theoretical study of the electromagnetic eigenwaves propagating perpendicular to the axis of symmetry in various cylindrical waveguide structures filled with magneto active plasma It is the second updated and significantly expanded edition of our book Surface Flute Waves in Plasmas Theory and Applications published in 2014 in the Springer Series on Atomic Optical and Plasma Physics First the text is complemented by a study of the wave energy rotation around the axis of the waveguides Second excitation of these waves by an electron beam gyrating around the axis is investigated in detail Surface waves means that these waves only propagate along plasma surfaces and not in uniform infinite plasmas Their wave amplitudes decrease with going away from the plasma boundary into the plasma depth Flute means that the axial wavenumbers  $k_z$  of the waves in plasma cylinders are assumed to be zero and the waves only propagate in azimuthal direction In this case the surfaces of constant density resemble fluted Greek columns However the presence of a small but finite  $k_z$  can be taken into account by the method of successive approximations using the theory of surface flute waves as zeroth approach A variety of present applications of surface waves and possible future applications are also included The book applies to both professionals dealing with physical and technological problems of confined plasmas and to graduate and post graduate students specializing in the fields of electrodynamics plasma physics and related applications

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concepts of plasma physics The motion of individual charged particles in various configurations of electric and magnetic fields is detailed in the second chapter while the third chapter considers the collective motion of the plasma particles described according to a hydrodynamic model The fourth chapter is most original in that it introduces a general approach to energy balance valid for all types of discharges comprising direct current DC and high frequency HF discharges including an applied static magnetic field The basic concepts required in this fourth chapter have been progressively introduced in the previous chapters The text is enriched with approx 100 figures and alphabetical index and 45 fully resolved problems Mathematical and physical appendices provide complementary information or allow to go deeper in a given subject *Plasma Physics* K. Nishikawa, M. Wakatani, 2013-04-17 *Plasma Physics Basic Theory with Fusion Applications* presents a thorough treatment of plasma physics beginning at an introductory level and including an extensive discussion of applications in thermonuclear fusion research The physics of fusion plasmas is explained in relation to recent progress in tokamak research and other plasma confinement schemes such as stellarators and inertial confinement The unique and systematic presentation and numerous problems will help readers to understand the overall structure of plasma theory and will facilitate access to more advanced literature on specialized topics This new edition has been updated with more recent results *Quantum Statistics of Nonideal Plasmas* Dietrich Kremp, Manfred Schlanges, Wolf-Dietrich Kraeft, 2005-12-11 During the last decade impressive development and significant advance of the physics of nonideal plasmas in astrophysics and in laboratories can be observed creating new possibilities for experimental research The enormous progress in laser technology but also ion beam techniques has opened new ways for the production and diagnosis of plasmas under extreme conditions relevant for astrophysics and inertially confined fusion and for the study of laser matter interaction In shock wave experiments the equation of state and further properties of highly compressed plasmas can be investigated This experimental progress has stimulated the further development of the statistical theory of nonideal plasmas Many new results for thermodynamic and transport properties for ionization kinetics dielectric behavior for the stopping power laser matter interaction and relaxation processes have been achieved in the last decade In addition to the powerful methods of quantum statistics and the theory of liquids numerical simulations like path integral Monte Carlo methods and molecular dynamic simulations have been applied

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and the impact of spectroscopy on our understanding of the building blocks of matter while in the area of applications particular attention is paid to chemical analysis photochemistry surface characterisation environmental and medical diagnostics remote sensing and astrophysics The third edition also provides the reader with an update on laser cooling and trapping Bose Einstein condensation ultrafast spectroscopy high power laser matter interaction satellite based astronomy and spectroscopic aspects of laser medicine

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*Quantum Squeezing* Peter D. Drummond, Zbigniew Ficek, 2004-01-22 The subject of this book is the new field of squeezing in quantum fields This general area includes all types of systems in which quantum fluctuations are reduced below those in the normal vacuum state The book covers the main currently known techniques of generating squeezed photon fields together with some treatment of matter field squeezing Both theory and experiments are covered together with applications to communications and measurement The chapters of the book are written by the foremost international experts in the field and their coverage extends from general introductory material to the most recent developments

*OAR Index of Research Results*, 1967 *OAR Quarterly Index of Current Research Results* United States. Air Force. Office of Aerospace Research, 1967

**Atom, Molecule, and Cluster Beams II** Hans Pauly, 2000-09-27 This book completes the physical foundations and experimental techniques described in volume 1 with an updated review of the accessory equipment indispensable in molecular beam experiments It extends the subject to cluster beams and beams of hyperthermal and subthermal energies As in volume 1 a special effort is made to outline the physical foundations of the various experimental techniques Hence this book is intended not only as a reference standard for researchers in the field but also to bring the flavor of current molecular beam research to advanced undergraduates and graduate students and to enable them to gain a solid background in the field and its technique

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**Relativistic Quantum Theory of Atoms and Molecules** Ian P Grant, 2007-04-15 This book is intended for physicists and chemists who need to understand the theory of atomic and molecular structure and processes and who wish to apply the theory to practical problems As far as practicable the book provides a self contained account of the theory of relativistic atomic and molecular structure based on the accepted formalism of bound state Quantum Electrodynamics The author was elected a Fellow of the Royal Society of London in 1992

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