

*Plasma Technology, 4*

# *Microwave Excited Plasmas*

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# Microwave Excited Plasmas

**J Rink**

## **Microwave Excited Plasmas:**

**Microwave Excited Plasmas** M. Moisan, J. Pelletier, 1992-11-06 The contrasting examples of microwave plasmas given in this volume demonstrate their capability of not only covering the totality of expressed needs in that particular field but in many others. For example the ions and reactive neutral species indispensable for the synergetic effects in etching and deposition processes can be used in metallurgical treatment and for materials processing in general. They also have the ability to dissociate molecules and excite atoms as required in analytical chemistry where the information on the constituent concentrations is obtained through optical spectroscopy or mass spectrometry. Finally microwave plasmas can supply the photons for laser and lighting applications. It is noteworthy that microwave plasmas cover an impressive pressure range of eight orders of magnitude from  $10^{-3}$  Pa to  $10^{-5}$  torr to above atmospheric pressure. The versatility of microwave plasmas, their moderate cost and their ease of implementation particularly appeal to the industrial entrepreneur. As well as providing a review of current developments the work proposes a synthesis on microwave discharges laying out the corresponding physical references without developing too much plasma theory. It will be of interest both to the user who may not be overly concerned about plasma science and to the plasma expert who may wish to redirect his interest towards plasma applications such as materials processing. *A Fundamental Study of the Microwave-excited Plasma* Dennis T. Pipes, 1980

Applications of microwave-excited plasmas to the analysis of volatile and gaseous compounds P. Whitehead, 1972

## **Probe Measurements in Low-pressure Expanding Microwave Excited Plasmas** Noura Mohamed Mehdi

Abdallah, 2009 The work presented in this thesis consists of an experimental study of the expansion of oxygen microwave plasma using Langmuir probes. We were able to determine the electron density and electron temperature of the expanding plasma as a function of operating parameters such as gas pressure and plasma power at different locations in the expanding plasma particularly where film growth is achieved. Our study shows that electron density increases with plasma power while electron temperature remains constant at fixed pressure. When pressure is varied the electron density increases rapidly in the range of 1 to 20 mTorr until a maximum value of approximately 7 times ten to the power of 9 electrons per cm cube is reached. Further increase in pressure leads to a decrease in electron density. On the other hand electron temperature was found to monotonically decrease with increasing pressure. Our analysis thus provides us with a clear indication regarding the pressure range where a plasma source is most efficient namely between a few mTorr and 30 mTorr. This result confirms previously obtained data on O atom generation in the plasma and oxide film deposition. Furthermore the effect of mixing oxygen with rare gas He, Ne and Ar is also investigated and discussed. Finally this study led to a better understanding of our plasma source in view of its use for the synthesis of technologically important oxide materials. **DIFFUSION IN A MICROWAVE-EXCITED PLASMA.** Roger F. Heintz, SYRACUSE UNIVERSITY DEPT OF ELECTRICAL ENGINEERING., 1970

The experimental investigation of diffusion in a microwave excited plasma is reported. The plasma is contained in a

microwave cavity and driven in the TM010 mode at approximately 8.4 GHz. The cavity is immersed in a static uniform magnetic field variable up to 3750 G. Gases used in these experiments were argon, helium, and hydrogen at pressures of 0.2, 16, and 65 Torr. The diffusion was determined from measurements of the net power absorbed by a constant density plasma as a function of magnetic field. Instabilities were observed only in argon at a pressure of 0.2 Torr. For stable plasmas, the power was essentially a monotonic decreasing function of the magnetic field. While some aspects of the experimental results agree with ambipolar diffusion theory, others do not. A marked difference is the strong dependence of the radial density distribution on the magnetic field. Also investigated was the decay of an afterglow helium plasma at 16 and 65 Torr. The plasma was observed to decay approximately 2-3 times faster than predicted by ambipolar diffusion.

**Author** **Physical and Analytical Properties of a Microwave Excited Plasma** Karen Fallgatter, 1970 **High Density Plasma Sources** Oleg A.

Popov, 1996-12-31 This book describes the design, physics, and performance of high density plasma sources which have been extensively explored in low pressure plasma processing such as plasma etching and planarization, plasma enhanced chemical vapor deposition of thin films, sputtered deposition of metals and dielectrics, epitaxial growth of silicon and GaAs, and many other applications. This is a comprehensive survey and a detailed description of most advanced high density plasma sources used in plasma processing. The book is a balanced presentation in that it gives both a theoretical treatment and practical applications. It should be of considerable interest to scientists and engineers working on plasma source design and process development.

*Microwave Discharges* Carlos M. Ferreira, Michel Moisan, 2013-11-21 Proceedings of a NATO ARW held in Vimeiro, Portugal, May 11-15, 1992. Encyclopedia of Plasma Technology - Two Volume Set J. Leon Shohet, 2016-12-12. Technical plasmas have a wide range of industrial applications. The Encyclopedia of Plasma Technology covers all aspects of plasma technology from the fundamentals to a range of applications across a large number of industries and disciplines. Topics covered include nanotechnology, solar cell technology, biomedical and clinical applications, electronic materials, sustainability, and clean technologies. The book bridges materials science, industrial chemistry, physics, and engineering, making it a must have for researchers in industry and academia, as well as those working on application oriented plasma technologies. Also Available Online: This Taylor & Francis International Tel 44 0 20 7017 6062 E-mail online sales@tandf.co.uk. Advanced Technologies Based on Wave and Beam Generated Plasmas H. Schlüter, A.

Shivarova, 2013-06-29 This volume is based on the lectures at the NATO Advanced Study Institute entitled Advanced Technologies Based on Wave and Beam Generated Plasmas held at Sozopol, Bulgaria, from May 22 till June 1, 1998. It attracted almost 100 participants from 16 different countries. The meeting combined different types of scientists from advanced experts to aspiring young researchers. It aimed at stimulating future development by providing across borders cross fertilization and exchanges between previously unconnected groups. This is reflected in the contents of the volume which covers the lectures given. The book also contains in a second part 43 poster presentations mostly from younger participants.

with valuable complementations and specifica tions to the lectures With its topics the Advanced Study Institute constitutes the first attempt to bring together in an organized manner three areas of work on plasma technologies advanced efforts based on wave generated high frequency plasmas on plasma assisted ion implantation and on electron beam generated plasmas     *Semiconductor Technology (ISTC 2001)* Ming Yang,2001     **Microwave Processing of Materials IV** Magdy F. Iskander,R. J. Lauf,Willard Holmes Sutton,1994     **Microwaves : Theory and Application in Materials Processing** ,1997 Vols for 1991 consist of proceedings of the Symposium on Microwaves Theory and Application in Materials Processing 1993 1995 Microwaves Theory and Application in Materials Processing 1997 World Congress on Microwave and Radio Frequency Processing     The Electromagnetic Evaluation of a Compact ECR Microwave Plasma Source Mark Alan Perrin,1996     **3rd International Workshop Microwave Discharges, Fundamentals and Applications** Caroline Boisse-Laporte,Jean Marec,1998     **Documentation of Plasma Physics. Pt. 1, Experimental Plasma Physics [and] Theoretical Plasma Physics** ,1973     **IEEE Conference Record-abstracts** ,1979     JJAP ,2010     **Government Reports Index** ,1973     **Microlithography** ,1987

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