

# Dusty and Self-Gravitational Plasmas in Space

Pavel Bliokh,  
Victor Sinitsin  
and Victoria Yaroshenko



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# Dusty And Self Gravitational Plasmas In Space Astrophysics And Space Science Library

**H. Kikuchi**



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**Dusty and Self-Gravitational Plasmas in Space** P. Bliokh, V. Sinitin, V. Yaroshenko, 2013-04-18 The diverse and often surprising new facts about planetary rings and comet environments that were reported by the interplanetary missions of late 1970s 1980s stimulated investigations of the so called dusty plasma The number of scientific papers on the subject that have been published since is quite impressive Recently a few surveys and special journal issues have appeared Time has come to integrate some of the knowledge in a book Apparently this is the first monograph on dusty and self gravitational plasmas While the circle of pertinent problems is rather clearly defined not all of them are equally represented here The authors have concentrated on cooperative phenomena Le waves and instabilities in the dusty plasma and the effects of self gravitation At the same time in an attempt to present the vast material consistently we have included such topics as electrostatics of the dusty plasma and gravitoelectrodynamics of individual charged particles Also mentioned are astrophysical implications mostly concerning planetary rings We hope that the book shall be of interest and value both to specialists and those astrophysicists who have just discovered this area of plasma physics We are thankful to many scientists actively working in the field of dusty plasma physics who have generously let us become acquainted with their results sometimes prior to publication of their own papers U de Angelis N D Angelo o Havnes A Mendis M Rosenberg P Shukla F Verheest and E Wollman

**Waves in Dusty Space Plasmas** Frank Verheest, 2001-11-30 In this volume a thorough review is given of waves in dusty plasmas a fascinating new domain combining plasmas and charged dust two omnipresent ingredients of the Universe Spokes and braids observed in the rings of Saturn cannot be explained by gravitation alone but need the presence of charged dust Other examples abound as in zodiacal light noctilucent clouds comets and molecular clouds After discussing charging mechanisms supported by exciting new experiments and space observations the book describes extensions of known plasma modes covering the low frequencies typical for charged dust Mixing detailed theoretical steps with summaries of expert contributions a systematic multi species treatment puts the literature in perspective suitable also for newcomers Typical complications like fluctuating dust charges self gravitational effects and size distributions are dealt with before ending with an outlook to future work and open questions In this way experts as well as interested newcomers will find a reliable guide not just a compendium

**Heliophysics: Active Stars, their Astrospheres, and Impacts on Planetary Environments** Carolus J. Schrijver, Frances Bagenal, Jan J. Sojka, 2016-03-17 Heliophysics is a fast developing scientific discipline that integrates studies of the Sun s variability the surrounding heliosphere and the environment and climate of planets This volume the fourth in the Heliophysics collection explores what makes the conditions on Earth just right to sustain life by comparing Earth to other solar system planets by comparing solar magnetic activity to that of other stars and by looking at the properties of evolving exoplanet systems By taking an interdisciplinary approach and using comparative heliophysics the authors illustrate how we can learn about our local cosmos by looking beyond it and in doing so also enable the converse

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*Dusty Plasmas in the New Millennium* R.

Bharuthram, 2002-12-06 A dusty plasma or complex plasma is a plasma ionized gas in which relatively massive particulates dust grains are embedded Dusty plasmas occur widely in nature and show great industrial potential This volume reports on the latest developments in dusty plasma physics from astrophysical to space to laboratory environments Theoretical and computer simulation advances cover topics such as linear instabilities nonlinear wave phenomena and plasma sheaths Experimental results deal with exciting areas such as particle coagulation plasma crystals plasma voids and microgravity experiments Four comprehensive overview papers are presented on dusty plasmas in astrophysics and cosmology the solar system and the ionosphere and its environment as well as on the structure and dynamics of strongly non ideal plasmas In addition eight topical reviews are included as well as about 90 short research papers

Dusty and Self-Gravitational Plasmas in Space P. Bliokh, V. Sinitsin, V. Yaroshenko, 1995-09-30 The diverse and often surprising new facts about planetary rings and comet environments that were reported by the interplanetary missions of late 1970s 1980s stimulated investigations of the so called dusty plasma The number of scientific papers on the subject that have been published since is quite impressive Recently a few surveys and special journal issues have appeared Time has come to integrate some of the knowledge in a book Apparently this is the first monograph on dusty and self gravitational plasmas While the circle of pertinent problems is rather clearly defined not all of them are equally represented here The authors have concentrated on cooperative phenomena Le waves and instabilities in the dusty plasma and the effects of self gravitation At the same time in an attempt to present the vast material consistently we have included such topics as electrostatics of the dusty plasma and gravitoelectrodynamics of individual charged particles Also mentioned are astrophysical implications mostly concerning planetary rings We hope that the book shall be of interest and value both to specialists and those astro physicists who have just discovered this area of plasma physics We are thankful to many scientists actively working in the field of dusty plasma physics who have generously let us become acquainted with their results sometimes prior to publication of their own papers U de Angelis N D Angelo o Havnes A Mendis M Rosenberg P Shukla F Verheest and E Wollman

*Subject Guide to Books in Print*, 1996

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Sinitsin, V. Yaroshenko, 1995-09-30 The diverse and often surprising new facts about planetary rings and comet environments that were reported by the interplanetary missions of late 1970s 1980s stimulated investigations of the so called dusty plasma The number of scientific papers on the subject that have been published since is quite impressive Recently a few surveys and special journal issues have appeared Time has come to integrate some of the knowledge in a book Apparently this is the first

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**Dusty and Dirty Plasmas, Noise, and Chaos in Space and in the Laboratory** H. Kikuchi,2012-12-06 I have been asked by Professor Kikuchi to write a foreword for this interesting book on Dusty Plasmas and other electrical phenomena This was a somewhat daunting task due to the wide range of topics covered In what follows I have attempted to summarize most of these topics for this purpose I have divided them into four groups namely a Dusty Plasmas b The Electrical Environment c Lightning and d The Noise Environment I hope that I have succeeded in indicating that each section contains much that is of great interest It is perhaps unnecessary for me to point out that the book contains subjects which are at an exciting and important stage in their development a Dusty Plasmas The subject of dusty plasmas is one of great interest Dust particles in interplanetary space within comets in inter stellar space and at ever greater distances will in general be charged The plasma environment will ensure this bombarding electrons will charge up the particle until it assumes a floating

potential although time variation can occur Ultra violet radiation can cause photoemission and in certain cases field emission is a possibility The motion of the particles will be determined by electric and magnetic fields together with gravity If the density of charged grains becomes sufficiently high the grains will interact with each other and collective behaviour will ensue This newly evolving subject entails the study of all kinds of plasma waves

**Waves in Dusty, Solar, and Space Plasmas**

F. Verheest, M. Goossens, M.A. Hellberg, R. Bharuthram, 2000-10-06 Dusty solar and space plasmas are fields that have a lot in common with dust particles occurring in space cometary and interstellar regions This collection represents the latest results presented by leading scientists in these fields Contributions include all three areas of interest and they cover a wide range of topics such as applications in space and astrophysical plasmas the general aspects of collective processes self gravitational effects fugacity in dusty plasmas Aflvn waves linear and nonlinear studies as well as fluid and kinetic theory In the solar physics area the emphasis was on MHD waves and solar coronal heating and was enhanced by some of the spectacular observations made possible by recent space missions

*Plasma Astrophysics, Part II* Boris V. Somov, 2007-12-31

Magnetic elds are easily generated in astrophysical plasma owing to its 6 high conductivity Magnetic elds having strengths of order few 10 G correlated on several kiloparsec scales are seen in spiral galaxies Their origin could be due to ampli cation of a small seed eld by a turbulent galactic dynamo In several galaxies like the famous M51 magnetic elds are well correlated or anti correlated with the optical spiral arms These are the weakest large scale elds observed in cosmic space The strongest magnets in space are presumably the so called magnetars the highly mag 15 netized with the strength of the eld of about 10 G young neutron stars formed in the supernova explosions The energy of magnetic elds is accumulated in astrophysical plasma and the sudden release of this energy an original electrodynamical burst or explosion takes place under the right but quite general conditions P att 1992 Sturrock 1994 Kivelson and Russell 1995 Rose 1998 Priest and Forbes 2000 Somov 2000 Kundt 2001 Such a are in ast physical plasma is accompanied by fast directed ejections jets of plasma powerful ows of heat and hard electromagnetic radiation as well as by impulsive acceleration of charged particles to high energies

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