

FUNDAMENTALS OF SPACECRAFT CHARGING

Spacecraft Interactions with Space Plasmas



SHU T. LAI

Fundamentals Of Spacecraft Charging Spacecraft Interactions With Space Plasmas

Giovanni Vulpetti



Fundamentals Of Spacecraft Charging Spacecraft Interactions With Space Plasmas:

Fundamentals of Spacecraft Charging Shu T. Lai, 2011-10-17 As commercial and military spacecraft become more important to the world's economy and defense and as new scientific and exploratory missions are launched into space the need for a single comprehensive resource on spacecraft charging becomes increasingly critical *Fundamentals of Spacecraft Charging* is the first and only textbook to bring together all the necessary concepts and equations for a complete understanding of the subject Written by one of the field's leading authorities this essential reference enables readers to fully grasp the newest ideas and underlying physical mechanisms related to the electrostatic charging of spacecraft in the space environment Assuming that readers may have little or no background in this area this complete textbook covers all aspects of the field The coverage is detailed and thorough and topics range from secondary and backscattered electrons spacecraft charging in Maxwellian plasmas effective mitigation techniques and potential wells and barriers to operational anomalies meteors and neutral gas release Significant equations are derived from first principles and abundant examples exercises figures illustrations and tables are furnished to facilitate comprehension *Fundamentals of Spacecraft Charging* is the definitive reference on the physics of spacecraft charging and is suitable for advanced undergraduates graduate level students and professional space researchers Some images inside the book are unavailable due to digital copyright restrictions

Handbook of Aerospace Electromagnetic Compatibility Reinaldo J. Perez, 2018-11-30 A comprehensive resource that explores electromagnetic compatibility EMC for aerospace systems *Handbook of Aerospace Electromagnetic Compatibility* is a groundbreaking book on EMC for aerospace systems that addresses both aircraft and space vehicles With contributions from an international panel of aerospace EMC experts this important text deals with the testing of spacecraft components and subsystems analysis of crosstalk and field coupling aircraft communication systems and much more The text also includes information on lightning effects and testing as well as guidance on design principles and techniques for lightning protection The book offers an introduction to E3 models and techniques in aerospace systems and explores EMP effects on and technology for aerospace systems Filled with the most up to date information illustrative examples descriptive figures and helpful scenarios *Handbook of Aerospace Electromagnetic Compatibility* is designed to be a practical information source This vital guide to electromagnetic compatibility Provides information on a range of topics including grounding coupling test procedures standards and requirements Offers discussions on standards for aerospace applications Addresses aerospace EMC through the use of testing and theoretical approaches Written for EMC engineers and practitioners *Handbook of Aerospace Electromagnetic Compatibility* is a critical text for understanding EMC for aerospace systems

Safety Design for Space Operations Tommaso Sgobba, Firooz A. Allahdadi, 2013-03-24 This chapter deals with some key topics of orbital safety It starts with an overview of the issue of space traffic control and space situational awareness and then proceeds to address conjunction analyses and collision avoidance maneuvers CAM including for the International Space

Station Another kind of collision risk discussed is the jettison of discarded hardware The chapter then covers rendezvous and docking berthing operations Collision safety risks their causes and consequences and the measures for protection are discussed in detail The chapter also covers the issues of space vehicles charging and contamination hazards including the shock hazard for astronauts involved in extravehicular activities Finally the chapter presents end of life mitigation measures and techniques for space debris removal such as space tugs drag devices and electrodynamic propulsion

Emerging Applications of Plasma Science in Allied Technologies Shahzad, Aamir, He, Maogang, 2024-01-29 The scientific application of plasma across a variety of fields continues to expand with new research at a remarkable rate The convergence between plasma science and domains such as energy materials semiconductor systems textiles medicine agriculture and space exploration is merely scratching the surface of the known possibilities of this technology Scientists require a sound understanding of the current state of these possibilities in order to push the technology further into the unknown potential of plasma science The chapters of the book *Emerging Applications of Plasma Science in Allied Technologies* coalesce to form a holistic panorama of innovations encompassing everything from sustainable energy solutions to antimicrobial applications This book stands as a definitive guide to the forefront of innovation and offers a comprehensive dive into the profound impacts of plasma science across diverse fields presenting a synthesis of cutting edge research and development It opens with a meticulous overview of the foundational principles underpinning plasma science serving as a springboard for the exploration of its myriad applications From fundamental physics and mechanisms to innovative designs and allied technologies the pages illuminate the multifaceted dimensions of plasma based advancements Plasma technology catalyzes advancements in modern medicine and healthcare The intricate interplay between plasma based treatments and living tissues is dissected revealing a landscape where innovation bridges the gap between science fiction and reality This book unpacks the critical role of plasma science in the eco friendly conversion of carbon dioxide thereby offering a beacon of hope in the struggle against climate change This book is a trailblazing resource for academics researchers and postgraduate students offering a comprehensive foundation in this groundbreaking field Industry professionals from biomedical engineers to agricultural innovators will find a treasure trove of insights to fuel their work This book beckons policymakers and visionaries to comprehend the potential of plasma science in steering humanity toward sustainable cleaner and healthier futures

Extreme Events in Geospace Natalia Buzulukova, 2017-12-01 *Extreme Events in Geospace Origins Predictability and Consequences* helps deepen the understanding description and forecasting of the complex and inter related phenomena of extreme space weather events Composed of chapters written by representatives from many different institutions and fields of space research the book offers discussions ranging from definitions and historical knowledge to operational issues and methods of analysis Given that extremes in ionizing radiation ionospheric irregularities and geomagnetically induced currents may have the potential to disrupt our technologies or pose danger to human health it is increasingly important to

synthesize the information available on not only those consequences but also the origins and predictability of such events

Extreme Events in Geospace Origins Predictability and Consequences is a valuable source for providing the latest research for geophysicists and space weather scientists as well as industries impacted by space weather events including GNSS satellites and radio communication power grids aviation and human spaceflight The list of first second authors includes M Hapgood N Gopalswamy K D Leka G Barnes Yu Yermolaev P Riley S Sharma G Lakhina B Tsurutani C Ngwira A Pulkkinen J Love P Bedrosian N Buzulukova M Sitnov W Denig M Panasyuk R Hajra D Ferguson S Lai L Narici K Tobiska G Gapirov A Mannucci T Fuller Rowell X Yue G Crowley R Redmon V Airapetian D Boteler M MacAlester S Worman D Neudegg and M Ishii Helps to define extremes in space weather and describes existing methods of analysis Discusses current scientific understanding of these events and outlines future challenges Considers the ways in which space weather may affect daily life Demonstrates deep connections between astrophysics heliophysics and space weather applications including a discussion of extreme space weather events from the past Examines national and space policy issues concerning space weather in Australia Canada Japan the United Kingdom and the United States

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 E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

Fast Solar Sailing Giovanni Vulpetti, 2012-08-10 The range of solar sailing is very vast it is a fully in space means of propulsion that should allow us to accomplish various mission classes that are literally impossible using rocket propulsion no matter if nuclear or electric Fast and very fast solar sailings are special classes of sailcraft missions initially developed only in the first half of the 1990s and still evolving especially after the latest advances in nanotechnology This book describes how to plan compute and optimize the trajectories of sailcraft with speeds considerably higher than 100 km s such sailcraft would be able to explore the outer heliosphere the near interstellar medium and the solar gravitational lens 550 800 astronomical units in times significantly shorter than the span of an average career 35 years just to cite a few examples The scientific interest in this type of exploration is huge

Spacecraft Charging by Magnetospheric Plasmas Alan Rosen, 1976

Physics of Satellite Surface Charging Shu T. Lai, Rezy Pradipta, 2022-03-17 This book will explore the fundamentals of spacecraft charging why it occurs when it occurs where it occurs how to measure it and its side effects It will discuss state of the art spacecraft charging technologies which will be explained in detail and with pedagogical emphasis Exercises for further learning will be included to facilitate a deeper

understanding of the material It will be of interest to advanced undergraduate and graduate students in addition to researchers working in physics and engineering keen to understand more about spacecraft interactions with space plasmas

Key Features Translates complex terminology into accessible language Authored by experts in the field Provides worked examples and exercises for further learning **Space Station Systems** ,1986 Current Collection from Space Plasmas Nagendra Singh,K. H. Wright,Nobie H. Stone,1990 AIAA 75-402 - AIAA 75-435. (With omissions in numbering) ,1975

NASA SP. ,1991 **Inception of Snapover and Gas Induced Glow Discharges** J. T. Galofatro,2000 **AIAA 26th Aerospace Sciences Meeting** ,1988 **Physics Briefs** ,1983 **International Aerospace Abstracts** ,1998 NASA Conference Publication ,1977 **Guide to Mitigating Spacecraft Charging Effects** Henry B. Garrett,Albert C. Whittlesey,2012-04-20

The definitive guide to the modern body of spacecraft charging knowledge from first principles for the beginner to intermediate and advanced concepts The only book to blend the theoretical and practical aspects of spacecraft charging Guide to Mitigating Spacecraft Charging Effects defines the environment that not only creates the aurora but which also can have significant effects on spacecraft such as disruption of science measurements and solar arrays from electrostatic discharge ESD It describes in detail the physics of the interaction phenomenon as well as how to construct spacecraft to enhance their survivability in the harsh environment of space Combining the authors extensive experience in spacecraft charging and in their provision of design support to NASA JPL the commercial satellite market and numerous other projects this incredible book offers both a robust physics background and practical advice for neophytes in the field and experienced plasma physicists and spacecraft engineers In addition to containing numerous equations graphs tables references and illustrations Guide to Mitigating Spacecraft Charging Effects covers Solar cell technology especially higher voltage arrays and the new design approaches that are appropriate for them Information about the space plasma environment New analytic computer codes to analyze spacecraft charging Spacecraft anomalies and failures which emphasized designs that are of greater importance than others *Optical Engineering* ,1994 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology

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