

FUNDAMENTALS OF SPACECRAFT CHARGING

Spacecraft Interactions with Space Plasmas



SHU T. LAI

Spacecraft Charging By Magnetosphere Volume 47

Didier Musso



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Proceedings of the Spacecraft Charging Technology Conference C. P. Pike, 1977 A Spacecraft Charging Technology Conference sponsored by the USAF and NASA was held in October 1976 The Proceedings contain over 50 papers dealing with subjects including 1 the geosynchronous plasma environment 2 spacecraft modeling 3 spacecraft materials characterization 4 spacecraft materials development 5 satellite design and test In addition an executive summary and the transcript of a panel discussion are included Author Fundamentals of Spacecraft Charging Shu T. Lai, 2012 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 **NASA Technical Paper**, 1984

Spacecraft Charging Technology, 1978, 1979 **Spacecraft Charging by Magnetospheric Plasmas** Alan Rosen, 1976

Progress in Solar-Terrestrial Physics J.G. Roederer, 1983-03-31 Solar Terrestrial Physics The Study of Mankind's Newest Frontier Solar Terrestrial Physics STP has been around for 100 years However it only became known as a scientific discipline under that name when the physical domain studied by STP became accessible to in situ observation and measurement by man or man made instruments Indeed it was STP that provided the initial scientific driving force for the launching of man made devices into extra terrestrial space during the International Geophysical Year aided of course by the genetically engrained drive of humans to expand their frontiers of knowledge influence and dominance We may define STP as the discipline dealing with the variable components of solar corpuscular and electromagnetic emissions the physical processes governing their sources and their propagation through interplanetary space and the physical chemical processes related to their interaction with the Earth and other bodies in interplanetary space Much of STP deals with fully or partially ionized gas flows and related energy momentum and mass transfer in what now appears as one single system made up of distinct but strongly interacting parts reaching from the photosphere out to the confines of the heliopause engulfing planets and other

solar system bodies and dipping deep into the Earth's atmosphere Air Force Surveys in Geophysics, 1977 Handbook of Aerospace Electromagnetic Compatibility Reinaldo J. Perez, 2018-12-27 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 Design Guidelines for Assessing and Controlling Spacecraft Charging Effects, 1984 **Space Physics and Aeronomy, Space Weather Effects and Applications** Anthea J. Coster, Philip J. Erickson, Louis J. Lanzerotti, 2021-04-27 Examines how solar and terrestrial space phenomena affect sophisticated technological systems Contemporary society relies on sophisticated technologies to manage electricity distribution communication networks transportation safety and myriad other systems The successful design and operation of both ground based and space based systems must consider solar and terrestrial space phenomena and processes Space Weather Effects and Applications describes the effects of space weather on various present day technologies and explores how improved instrumentation to measure Earth's space environment can be used to more accurately forecast changes and disruptions Volume highlights include Damage and disruption to orbiting satellite equipment by solar particles and cosmic rays Effects of space radiation on aircraft at high altitudes and latitudes Response of radio and radar based systems to solar bursts Disturbances to the propagation of radio waves caused by space weather How geomagnetic field changes impact ground based systems such as pipelines Impacts of human exposure to the space radiation environment The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Find out more about the Space Physics and Aeronomy collection in this Q A with the Editors in Chief **Effect of the Ionosphere on Space and Terrestrial Systems**, 1978 NASA Conference Publication, 1993 **Optics in Adverse Environments** Mark A. Kahan, 1980 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 **NASA Technical Translation** ,1974 *Literature 1976, Part 2* S. Böhme,Ute Esser,Professor Dr. Walter Fricke,U. Güntzel-Lingner,I. Heinrich,D. Krahn,Dr. Lutz D. Schmadel,G. Zech,2013-04-18 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 18 contains literature published in 1976 and received before March 1 1977 some older literature which was received late and which is not recorded in earlier volumes is also included NASA Conference Publication ,1978 Space Systems and Their Interactions with Earth's Space Environment Henry B. Garrett,Charles P. Pike,1980 **LDEF** Arlene S. Levine,1995
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