

GALILEO INTERNAL ELECTROSTATIC DISCHARGE PROGRAM Philip L. Leung, Gregory H. Plamp, and Paul A. Robinson, Jr., Jet Propulsion Laboratory	423
CHARACTERISTICS OF EMI GENERATED BY NEGATIVE METAL/POSITIVE DIELECTRIC VOLTAGE STRESSES DUE TO SPACECRAFT CHARGING R. C. Chaky and G. T. Inouye, TRW Space and Technology Group	437
LABORATORY STUDIES OF SPACECRAFT RESPONSE TO TRANSIENT DISCHARGE PULSES J. E. Nanevycz and R. C. Adamo, SRI International	453
DEVELOPMENT OF A CONTINUOUS BROAD-ENERGY-SPECTRUM ELECTRON SOURCE R. C. Adamo and J. E. Nanevycz, SRI International	465
AUTOMATIC CHARGE CONTROL SYSTEM FOR SATELLITES B. M. Shuman and H. A. Cohen, Air Force Geophysics Laboratory	471
Session V.- Materials Effects	
DISCHARGE PULSE PHENOMENOLOGY Arthur R. Frederickson, Rome Air Development Center	483
DISCHARGE CHARACTERISTICS OF DIELECTRIC MATERIALS EXAMINED IN MONO-, DUAL-, AND SPECTRAL ENERGY ELECTRON CHARGING ENVIRONMENTS P. Coakley, M. Treadway, N. Wild, and B. Kitterer, Jaycor	511
MASS SPECTRA OF NEUTRAL PARTICLES RELEASED DURING ELECTRICAL BREAKDOWN OF THIN POLYMER FILMS B. R. F. Kendall, The Pennsylvania State University	525
ELECTRON YIELDS FROM SPACECRAFT MATERIALS K. Yang, W. L. Gordon, and R. W. Hoffman, Case Western Reserve University	537
KAPTON CHARGING CHARACTERISTICS: EFFECTS OF MATERIAL THICKNESS AND ELECTRON-ENERGY DISTRIBUTION W. S. Williamson, C. R. Dulgeroff, and J. Hymann, Hughes Research Laboratories, and R. Viswanathan, Hughes Space and Communications Group	547
ELECTRICAL CONDUCTION IN POLYMER DIELECTRICS David B. Cotts, SRI International	559
INVESTIGATIONS OF RADIATION-INDUCED AND CARRIER-ENHANCED CONDUCTIVITY A. Meulenber, Jr., COMSAT Laboratories, L. W. Parker, Lee W. Parker Inc., and E. J. Yablowski and R. C. Hazelton, H-Y Tek Corporation	571
A SIMPLE MODEL OF ELECTRON BEAM INITIATED DIELECTRIC BREAKDOWN B. L. Beers, R. E. Daniell, and T. N. Delmer, Beers Associates, Inc.	591