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LASER TYPE ULTRA-VIOLET RADIATION FEASIBILITY FOR LIGHTNING AND ATMOSPHERIC PROPAGATION STUDIES Oct 1964 30 pages

Authors: J. R. Stahmann; LIGHTNING AND TRANSIENTS RESEARCH INST ST PAUL MN

Full Text

... ultra-violet source as a possible substitute for the continuously supported wire antenna, used for artificial atmospheric propagation studies and to trigger **lightning** for natural **lightning** channel studies, is considered. The energy required to produce an electron plasma or even a molecular plasma is quite high. A powerful ... However, it is difficult if not impossible to produce lasers with wavelengths below the 1000 A required to ionize air molecules. Laboratory **experiments** were limited to the use of a 14 kilowatt carbon arc as a source in the far ultra-violet. No long spark diversion similar to ...

A Brief History of Laser Guided Lightning Discharge Models and Experiments Jul 5, 1994 25 pages

Authors: Matthew A. Kozma; PHILLIPS LAB HANSCOM AFB MA

Full Text

Laser guided **lightning** discharge uses lasers instead of rockets to trigger **lightning**. Artificially triggered **lightning** has several important applications including aerospace vehicle launch protection and electrical power line transmission protection, among others. A brief history of the theoretical models used to predict triggered **lightning**, the experimentation completed with rocket triggered **lightning**, and the work completed on laser guided **lightning** discharge is presented. A bibliography of work related to **lightning** modeling, rocket-triggered **lightning**, and laser-triggered **lightning** is ...

Catalog of Absolutely Calibrated, Range Normalized, Wideband, Electric Field Waveforms from Located Lightning Flashes in Florida. Volume 2. 8 and 10 August 1985 Data Apr 12, 1991 310 pages

Authors: Yutaka Izumi; John C. Willett; PHILLIPS LAB HANSCOM AFB MA

Full Text

... **experiments** were conducted at the NASA Kennedy Space Center, Florida, to measure electromagnetic fields produced by **lightning**. This is the second data report resulting from these **experiments**. It presents plots of range-normalized waveforms for all offshore located **lightning** events recorded during two storms on 8 and 10 August 1985. The storms in ... field, time derivative of the electric field, and high frequency energy spectral density. **Lightning**, Electromagnetic radiation, Kennedy Space Center, Electric field, HF radiation.

The Initiation of Lightning and the Growth of Electric Fields in Thunderstorms Dec 1993 60 pages

Authors: John Latham; UNIVERSITY OF MANCHESTER INST OF SCIENCE AND TECHNOLOGY (UNITED KINGDOM) DEP T OF PHYSICS

Full Text

Further research into the glaciation of convective clouds of-the type that produce **lightning** has revealed that the early stages of ice formation can be detected by measurement of the supercooled droplet radius - a result which also has climatological implications. Further laboratory **experiments** have shown that the most effective methods of **lightning** initiation are likely to involve supercooled raindrops, with threshold fields around 300kV/m. A new model of thundercloud electrification and **lightning** production has been developed, from which it is possible to deduce the sensitivity of ...

The Initiation of Lightning and the Growth of Electric Fields in Thunderstorms Dec 1992 90 pages

Authors: John Latham; UNIVERSITY OF MANCHESTER INST OF SCIENCE AND TECHNOLOGY (UNITED KINGDOM) DEP T OF PURE AND APPLIED PHYSICS

Full Text

As specified in the original proposal, there exits mounting evidence that the growth of strong electric fields - culminating in **lightning** - in the great majority of thunderstorms is intimately linked with - and probably contingent upon - the concomitant development of the ice-phase. Thus, significant ... has been devoted in this first year of a proposed 3-year study, to the analysis and interpretation of data emanating from major airborne **experiments** in which a primary objective was to seek a superior understanding of the initiation and development in cumulus clouds of the type which often become ...

Atmospheric Electricity and the Apollo Series. Jun 1972 90 pages

Authors: Joseph E. Nanevicz; Edward T. Pierce; Arthur L. Whitson; STANFORD RESEARCH INST MENLO PARK CALIF

Full Text

... of a large launch vehicle. Of particular concern was the effective electrical length of the vehicle and plume since this parameter markedly affects the likelihood of a **lightning** stroke being triggered by a launch during disturbed weather conditions. Since no instrumentation could be carried aboard the launch vehicle, the **experiments** were confined to LF radio noise and electrostatic-field measurements on the ground in the vicinity of the launch pad. The philosophy of the experiment and ...

Unification of Electromagnetic Specifications and Standards. Part 2. Recommendations for Revisions of Existing Practices Feb 28, 1983 78 pages

Authors: W. Graf; J. M. Hamm; E. F. Vance; SRI INTERNATIONAL MENLO PARK CA

Full Text

... control mode. Alternative techniques to the incompatible ones identified in the review are discussed in this report. Analysis was supported by laboratory **experiments** in the areas of grounding techniques, cable shield terminations, and aperture coupling. Extensive discussions are included on the allocation of protection and methods of incorporating it in specifications for EMP, **lightning**, and other external sources. Areas that need further research are identified, including the need to characterize system-generated interference, and ...

A Case Study of Two Computer Methods Used to Simulate Fires in Industrial Facilities Oct 27, 1997 116 pages

Authors: Christopher Asselta; DEPARTMENT OF ENERGY WASHINGTON DC

Full Text

... may have been enough to generate a small fire. Conventional anthropologists argue that fire may have been first discovered in forest fires started by **lightning**, lava flows or other natural causes. Fire is real and must be controlled. An area to best control and minimize its destructive effects ... a quicker response to small fires with the benefit of reducing damage to aircraft adjacent to the fire source. Along with full scale **experiments** - computer modeling played a role in formulating new approaches. The computer model should simulate the response of the facility fire control system for the ...

Studies of Intensive X, gamma and Optic Emission in Runaway Breakdown Process Apr 2001 83 pages

Authors: Alexander V. Gurevich; LEBEDEV PHYSICS INST MOSCOW (RUSSIA)

Full Text

... as follows: The contractor will investigate electromagnetic emission generated by suprathermal runaway electrons. The investigation of 'runaway breakdown' will be in both atmospheric and in laboratory **experiments**. It has been established that runaway breakdown is accompanied by a strong optic, X and gamma ray emissions. The contractor will address the ... (2) Investigate runaway breakdown phenomena in laboratory installation in conditions of cyclotron resonance. (3) Investigate the influence of combined effects of runaway breakdown and cosmic rays on **lightning** processes in thunderstorm atmosphere.

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