

Nonlinear Phenomena In The Ionosphere Physics And Chemistry In Space

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Infrasound in the ionosphere from earthquakes and typhoons ...

Additional Physical Format: Online version: Gurevich, A.V. (Aleksandr Viktorovich), 1930-Nonlinear phenomena in the ionosphere. Berlin ; New York : Springer Verlag ...

Ionosphere phenomena | Nature

Stimulated plasma instability and nonlinear phenomena in the ionosphere - NASA/ADS Several hundred topside ionograms, corresponding to both high- and low-power sounder operation, were used to investigate stimulated wave-particle interactions in the ionosphere.

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Nonlinear phenomena in the ionosphere - NASA/ADS

Nonlinear phenomena in the ionosphere Gurevich, A. V. Abstract. Plasma kinetics in an alternating electric field are considered and topics related to the self-action of plane radio waves are examined, taking into account a homogeneous alternating field in a plasma, a simplification of the kinetic equation for electrons, the transformation of ...

Nonlinear phenomena in the ionosphere (Book, 1978 ...

Infrasound waves are observed in the ionosphere relatively rarely, in contrast to atmospheric gravity waves. Infrasound waves excited by two distinguished sources as seismic waves from strong earthquakes ($M > 7$) and severe tropospheric weather systems (typhoons) are discussed and analyzed.

Nonlinear effects in the ionosphere - ResearchGate

The measurements on board the Cosmos-1809 satellite of various parameters of the topside ionosphere plasma during more than ten typhoons in various regions are analyzed. It is shown that specific zones of increased pressure of the electron gas, electric field, and intense ion oscillations are formed during the intensification stage. In some cases the "typhoon eye" is formed over the ...

Nonlinear Phenomena in the Ionosphere | SpringerLink

Nonlinear Phenomena in the Ionosphere by A. Gurevich, 9783642876516, available at Book Depository with free delivery worldwide.

Nonlinear Phenomena in the Ionosphere (eBook, 1978 ...

Theoretical and experimental studies of nonlinear phenomena induced in the ionosphere by high-power radio waves are briefly reviewed. These phenomena include cross modulation, nonlinear radio-wave absorption, disturbances of lower-ionospheric ionization, and the creation of artificial spread-F by upper-ionospheric modification.

Stimulated plasma instability and nonlinear phenomena in ...

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Smithsonian Astrophysical Observatory under NASA Cooperative Agreement NNX16AC86A

Nonlinear phenomena in the ionosphere | SpringerLink

Nonlinear phenomena in the ionosphere - NASA/ADS The paper identifies some of the various nonlinear effects in the ionosphere that are currently being studied with the aid of powerful radio transmitters. Outstanding problems to be researched further are pointed out.

Nonlinear phenomena in the ionosphere - NASA/ADS

Non-Linear Phenomena in the Ionosphere. By A. V. Gurevich. (Springer: New York, Heidelberg and Berlin, 1978.) DM98; \$49.

Nonlinear phenomena in the ionosphere (Book, 1978 ...

When the ionosphere is irradiated by high-power ground-based radiation, ionospheric disturbances develop due either to plasma displacement from the region of its heating or to additional ionization...

Nonlinear phenomena in the ionosphere - NASA/ADS

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Book-Review - Nonlinear Phenomena in the Ionosphere - NASA/ADS

The plasma turbulence phenomena that are studied include different types on nonlinear wave interactions, in which different waves in the plasma couple and interact with the transmitted radio wave, formation and self organization of filamentary plasma structures, as well as electron acceleration.

Nonlinear Phenomena In The Ionosphere

Nonlinear effects in the ionosphere (cross modulation of radio waves) have been known since the 1930s. Only recently, however, has the rapid increase in the power and directivity of

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the radio transmitters made it possible to alter the properties of the ionosphere strongly and to modify it artificially by applying radio waves.

Nonlinear Phenomena in the Ionosphere | A. Gurevich | Springer

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Nonlinear Phenomena in the Ionosphere : A. Gurevich ...

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Nonlinear effects in the ionosphere

Experimental evidence and theoretical results are presented for a physical model of ionospheric cavitons. The relationship of cavitons to other nonlinear phenomena and their role in ionospheric modification experiments are discussed. The recently completed HIPAS HF Transmitting Facility is described.

Ionospheric cavitons and related nonlinear phenomena ...

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Ionospheric heater - Wikipedia

November, 2007 Nonlinear effects in the ionosphere 1101. powerful radio wave, and also for the formation of groups of irregularities exhibiting a parabolic solitonlike structure in terms of the amplitude of maximum density perturbations. $DN_{max} < 0$

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(Fig. 15).

Nonlinear Phenomena in the Ionosphere (Physics and ...

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