SOLAR Pro.

Transportation of solar windmills

Under such circumstances, solar energy is more attractive in July as its production is more cost-effective. As for July at Hsinchu-1 and Hsinchu-3, the model still chose wind power. This exclusive use of wind power ...

a uniform, steady state expansion of solar wind. Modeling of SEP transport in the standard solar wind can be facilitated by the use of a corotating reference frame, wherein the solar wind speed is parallel to interplanetary magnetic field at each point and the magnetic field is static. However, this approach is not possible in the realistic ...

Recently developed transport theories for small-scale solar wind fluctuations explicitly treat convection, expansion, and other interactions with large-scale gradients, while separating ...

Here we show that during northward solar-wind magnetic field conditions--in the absence of active reconnection at low latitudes--there is a solar-wind transport mechanism associated with the ...

where ?, v, p, B, r, and t are normalized by the characteristic values, and R s /a s, where ? s and a s are the density and the speed of sound at the solar surface. The solar wind evolution is calculated in a reference frame of heliographic coordinates corotating with the Sun. Following Feng et al. (2010, 2012a, 2012b, 2012c, 2014) and Zhang & Feng (), the ...

We apply nested-sampling (NS) Bayesian analysis [AshtonEA22] to a model for the transport of MHD-scale solar wind fluctuations. The dual objectives are to obtain improved constraints on parameters present in the turbulence transport model (TTM) and to support comparisons of distinct versions of the TTM. The TTMs analysed are essentially 1D steady ...

Particularly if solar or wind power is the primary energy source, their intermittent energy production could cause substantial fluctuations in frequency and voltage.

Numerical solutions for the linear transport of solar wind fluctuations are presented. The model used takes into account the effects of advection, expansion, and wave propagation, as well as the recently illuminated effects of (non-WKB) "mixing" terms. The radial evolution of the fluctuating kinetic and magnetic energies and of the cross ...

Here we present a kinetic equation describing the transport of suprathermal electrons in an expanding solar wind background. We first assume that the total electron VDF that originates in the corona is composed of two main parts: a Maxwellian core population (labeled by the subscript c) and a suprathermal part (labeled by the subscript s) is unclear whether the ...

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The plasma sheet is populated in part by the solar wind plasma. Four solar entry mechanisms are examined:

(1) double cusp or double lobe reconnection, (2) Kelvin-Helmholtz Instability (KHI), (3) Kinetic Alfvén waves (KAW), and (4) Impulsive Penetration. These mechanisms can efficiently fill the plasma sheet with

cold dense ions during northward ...

The transport of energetic particles in a mean magnetic field and the presence of anisotropic magnetic

turbulence are studied numerically, for parameter values relevant to the solar wind. A numerical realization of

magnetic turbulence is set up in which we can vary the type of anisotropy by changing the correlation lengths l

x, l y</SUB>, l<SUB>z</SUB>.

We adopt the theory for turbulent transport of energy by solar wind fluctuations and apply that theory to

observations by the Voyager 1 and 2 spacecraft to obtain rates of thermal proton heating that are controlled by two sources: the large-scale fluctuations in the solar wind that arise from solar sources and the excitation of

waves by newborn interstellar ions.

Door-to-door transport of wind turbine components and blades, onshore and offshore as well as to solar parks.

Here we show that during northward solar-wind magnetic field conditions-in the absence of active

reconnection at low latitudes-there is a solar-wind transport mechanism associated with the ...

The topic of this review paper is on the influence of solar wind turbulence on shock propagation and its

consequence on the acceleration and transport of energetic particles at shocks. As ...

We apply nested-sampling (NS) Bayesian analysis [AshtonEA22] to a model for the transport of MHD-scale

solar wind fluctuations. The dual objectives are to obtain ...

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Page 2/2