

Title: Beidou positioning solar panels

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Semantic Scholar extracted view of "Precise orbit determination for BeiDou-3 satellite with solar panel non-nominal orientation operations using telemetry information" by Fengyu Xia et al.

The aim of this thesis was to integrate BeiDou into the processing of GNSS constellations at Graz University of Technology (TUG) and in particular to investigate the impact of SRP. Several SRP ...

From the collected telemetry information, the solar panel B (SP-B) of BeiDou-3 M215 satellite underwent pitch-maneuvers around the body-fixed Y-axis on days of year 65-67 of 2024, ...

To address this problem, the current study focuses on solar radiation modelling for all types of BeiDou satellites.

We describe the BeiDou satellites as having a box-wing-shaped structure combined with several other major components, i.e., the spacecraft surface is ...

Abstract: In the absence of detailed surface information, empirical solar radiation pressure (SRP) models, such as the five-parameter Empirical CODE Orbit Model (ECOM1) and its extended version ...

For the BDS (BeiDou Navigation Satellite System) satellites, the solar radiation pressure is the major non-gravitational perturbation the satellites suffer. Due to the influence of multiple factors, ...

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