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Crossed Small Deflection Energy Analyzer (SDEA) for Wind / Temperature Spectrometer (WTS)

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DESCRIPTION

The crossed SDEA is an improved tool for the measurement of neutral wind and ion drifts in the Earth's thermosphere. The crossed SDEA combines the angular and energy distributions in two mutually perpendicular planes into a single spectrometer with a single optical axis. The two detection planes cross at the spectrometer center, thereby enabling use of a single ion source for wind/temperature measurements. It may be useful in satellites that monitor the ionosphere potentially improving the integrity and predictability of GPS operations.

FEATURES AND BENEFITS

- The system uses minimal power and occupies minimal volume. Moreover, the size can be scaled for particular applications.
- A single ion source is used for both wind and temperature measurements.

APPLICATIONS

- Space weather sensing

FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-15357-1, please contact:

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