
opusxml Documentation

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1.1 opusxml Package

1.1.1 opusxml Module

class `opusxml.core.opus.Solution(filename)`

Bases: object

Parameters `filename (str)` –

data_quality(`unit='m'`)

Extract the information from an OPUS XML file DATA_QUALITY element, and return it in the desired units.

Parameters

- **(str)** (`unit`) –
- **unit** (`str`) –

Returns

- **accuracy** (**float Quantity array**) (*array of Quantity containing x,y,z coordinate accuracies.*)
- **rms** (**float Quantity**) (*the RMS value*)
- **used** (**int array**) (*array of observations [total, used]*)
- **fixed** (**int array**) (*array of observation ambiguities [total, fixed]*)

Return type tuple[list[float], float, list[int], list[int]]

mark_info()

Returns a dict containing information about the mark.

Return type collections.OrderedDict

plane_coords(`system='UTM', unit='m'`)

Extract the coordinate from an OPUS XML file PLANE_COORD_SPEC elements, and return it in the desired units and coordinate spec type.

Parameters

- **(str)** (`unit`) –
- **(str)** –
- **system** (`str`) –
- **unit** (`str`) –

Returns coords (float Quantity array)

Return type x,y,z coordinates as array of pint Quantity.

position(*system='LLA', ref_frame='NAD_83(2011)', unit='m'*)

Extract the coordinate from an OPUS XML file POSITION elements, and return it in the desired units and coordinate spec type.

Parameters

- **(str)** (*unit*) –
- **(str)** –
- **(str)** –

Returns coords (float Quantity array)

Return type array of pint Quantity containing ellipsoidal coordinates (LLA or LLH), or rectilinear XYZ coordinates.

ref_frames()

Return type str

solution_info()

Return a dict containing information about the solution.

Return type collections.OrderedDict

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