User Manual 4.10 Orientation

De Patrius
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La version imprimable n'est plus prise en charge et peut comporter des erreurs de génération. Veuillez mettre à jour les signets de votre navigateur et utiliser à la place la fonction d'impression par défaut de celui-ci.

Introduction

Scope

The purpose of this chapter is to describe the orientation package.

An orientation provider is an interface that provides methods to return an angle as a function of a spacecraft state.

Javadoc

Library	Javadoc
Patrius	Package fr.cnes.sirius.patrius.attitudes.orientations

Links

None as of now.

Useful Documents

None as of now.

Package Overview

Features Description

The orientations package is designed similarly to attitude providers:

- An interface `OrientationAngleProvider` returns an angle given a spacecraft state (similarly to `AttitudeProvider` which returns an Attitude)
- An interface `OrientationAngleLaw` gathers orientation laws and is similar to `AttitudeLaw`
- An interface `OrientationAngleLeg` is a time-bounded leg and is similar to `AttitudeLeg`
- An interface `OrientationAngleProfile` is a profile of orientation angles and is similar to `AttitudeProfile`
- A class `OrientationAngleLawLeg` is a law leg and is similar to `AttitudeLawLeg`
- A class `OrientationAngleLawLegsSequence` is a sequence of `OrientationAngleLawLeg` and is similar to `AttitudeLawLegsSequence`
- A class `OrientationAngleProfileSequence` is a sequence of `OrientationAngleProfile` and is similar to `AttitudeProfileSequence`

Note: the package currently does not provide any implementation of `OrientationAngleProvider` interface except for constant angles.

Getting Started

Use is identical to attitudes. See the page for examples.

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Interface	Summary	Javadoc
OrientationAngleProvider	Interface for all orientation angles providers.	...
OrientationAngleLaw	Interface for all orientation angles lasw.	...
OrientationAngleLeg	Interface for all orientation angles legs.	...
OrientationAngleProfile	Interface for all orientation angles profiles.	...

Classes

Class	Summary	Javadoc
OrientationAngleLawLeg	Orientation angle law leg.	...
OrientationAngleLawLegsSequence	Sequence of Orientation angle legs.	...
OrientationAngleProfileSequence	Sequence of Orientation angle profiles.	...

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- La dernière modification de cette page a été faite le 10 novembre 2022 à 09:07.
- Cette page a été consultée 58 fois.

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