User Manual 4.15 Orientation

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	[[[:Modèle:JavaDoc4.15]]/fr/cnes/sirius/patrius/attitudes/orientations/package-summary.html 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.

Contents

Interfaces

Interface	Summary	Javadoc
OrientationAngleProvider	Interface for all orientation angles providers.	[[[:Modèle:JavaDoc4.15]]/fr/cnes/sirius/patrius/attitudes/orientations/OrientationAngleProvider.html ...]
OrientationAngleLaw	Interface for all orientation angles lasw.	[[[:Modèle:JavaDoc4.15]]/fr/cnes/sirius/patrius/attitudes/orientations/OrientationAngleLaw.html ...]
OrientationAngleLeg	Interface for all orientation angles legs.	[[[:Modèle:JavaDoc4.15]]/fr/cnes/sirius/patrius/attitudes/orientations/OrientationAngleLeg.html ...]
OrientationAngleProfile	Interface for all orientation angles profiles.	[[[:Modèle:JavaDoc4.15]]/fr/cnes/sirius/patrius/attitudes/orientations/OrientationAngleProfile.html ...]

Classes

Class	Summary	Javadoc
OrientationAngleLawLeg	Orientation angle law leg.	[[[:Modèle:JavaDoc4.15]]/fr/cnes/sirius/patrius/attitudes/OrientationAngleLawLeg.html ...]
OrientationAngleLawLegsSequence	Sequence of Orientation angle legs.	[[[:Modèle:JavaDoc4.15]]/fr/cnes/sirius/patrius/attitudes/OrientationAngleLawLegsSequence.html ...]
OrientationAngleProfileSequence	Sequence of Orientation angle profiles.	[[[:Modèle:JavaDoc4.15]]/fr/cnes/sirius/patrius/attitudes/OrientationAngleProfileSequence.html ...]

Récupérée de « http://patrius.cnes.fr/index.php?title=User_Manual_4.15_Orientation&oldid=3848 »
[Catégories](#) :

Menu de navigation

Outils personnels

PATRIUS

- Welcome

Evolutions

- Main differences between V4.15 and V4.14
- Main differences between V4.14 and V4.13
- Main differences between V4.13 and V4.12
- Main differences between V4.12 and V4.11
- Main differences between V4.11 and V4.10
- Main differences between V4.10 and V4.9
- Main differences between V4.9 and V4.8
- Main differences between V4.8 and V4.7
- Main differences between V4.7 and V4.6.1
- Main differences between V4.6.1 and V4.5.1
- Main differences between V4.5.1 and V4.4
- Main differences between V4.4 and V4.3
- Main differences between V4.3 and V4.2
- Main differences between V4.2 and V4.1.1
- Main differences between V4.1.1 and V4.1
- Main differences between V4.1 and V4.0
- Main differences between V4.0 and V3.4.1

User Manual

Tutorials

Links

- [CNES freeware server](#)

Navigation

Outils

- [Pages liées](#)

- [Suivi des pages liées](#)
- [Pages spéciales](#)
- [Adresse de cette version](#)
- [Information sur la page](#)
- [Citer cette page](#)

- Dernière modification de cette page le 21 novembre 2024 à 15:20.

- [Politique de confidentialité](#)
- [À propos de Wiki](#)
- [Avertissements](#)

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