

User Manual 4.4 Orientation

De Wiki

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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.

Contents

Interfaces

| 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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