

Catégorie:User Manual 4.4 Attitude

De Wiki

Aller à : [navigation](#), [rechercher](#)

[Catégorie:User Manual 4.4 Attitude](#)

Sommaire

- [1 Introduction](#)
- [2 Applicable and Reference Documents](#)
 - [2.1 Applicable Documents](#)
 - [2.2 Reference Documents](#)
- [3 Overview](#)

Introduction

This section describes attitude features of Patrius: attitude laws, slew, guidance, etc.

Applicable and Reference Documents

Applicable Documents

[A1] *CDCF - Fonctions de Base du Patrimoine de Dynamique du Vol*, V1.2, SIRIUS-CF-DV-0049-CN, 2011.

[A2] *Dossier de réutilisation Orekit et Commons Math*, V1.0, SIRIUS-DLR-DV-0080-CN, 2010.

Reference Documents

None applicable.

Overview

The Attitude package of the PATRIUS library has been developed according to the SIRIUS Scope Statement **[A1]**. The themes developed are described hereafter :

Directions

Implementation of directions of space that can evolve in time.

Attitude laws

Several attitude laws are available. These laws were originally designed for orbit determination needs: in order to broaden their applications, a wrapper object has been created to meet the spacecraft attitude field needs.

Attitudes sequence

Implementation of an attitudes sequence for orbit determination: it is possible to define an

attitude law as a series of attitude laws in the context of a propagation.

Attitude legs sequence

Implementation for spacecraft attitude field of an attitude sequence: it is possible to define an attitude leg as a series of attitude legs.

Attitude composition

Implementation of an object that enables to define an attitude law as a composition of several laws.

Orientation

Orientations are similar to attitude providers except that it returns only one angle.

Slew

Implementation of slew. Slews are used in the attitudes sequence to define the transition between two laws.

Kinematics

Implementation of a tool box for kinematics calculations.

Guidance command

Implementation of the ground and the on-board guidance commands. The first one is computed, the second one is simulated. In both cases, it should be possible to compute the guidance command from a law and to consider the guidance command itself as a law.



Pages dans la catégorie « User Manual 4.4 Attitude »

Cette catégorie contient 19 pages, dont les 19 ci-dessous.

A

- [User Manual 4.10 Orientation](#)
- [User Manual 4.11 Orientation](#)
- [User Manual 4.12 Orientation](#)
- [User Manual 4.13 Orientation](#)
- [User Manual 4.14 Orientation](#)
- [User Manual 4.15 Orientation](#)
- [User Manual 4.5 Orientation](#)
- [User Manual 4.6 Orientation](#)
- [User Manual 4.7 Orientation](#)
- [User Manual 4.8 Orientation](#)
- [User Manual 4.9 Orientation](#)

U

- [User Manual 4.4 Attitude law](#)

- [User Manual 4.4 Attitude leg](#)
- [User Manual 4.4 Attitude Profile](#)
- [User Manual 4.4 Directions](#)
- [User Manual 4.4 Kinematics](#)
- [User Manual 4.4 Orientation](#)
- [User Manual 4.4 Rotation, AngularCoordinates, Tranform and Attitude : how to use them](#)
- [User Manual 4.4 Slew](#)

Récupérée de

« http://patrius.cnes.fr/index.php?title=Catégorie:User_Manual_4.4_Attitude&oldid=2366 »
[Catégorie](#) :

- [User Manual 4.4](#)

Menu de navigation

Outils personnels

- [52.15.136.223](#)
- [Discussion avec cette adresse IP](#)
- [Créer un compte](#)
- [Se connecter](#)

Espaces de noms

- [Catégorie](#)
- [Discussion](#)

Variantes

Affichages

- [Lire](#)
- [Voir le texte source](#)
- [Historique](#)
- [Exporter en PDF](#)

Plus

Rechercher

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

- [User Manual 4.15](#)
- [User Manual 4.14](#)
- [User Manual 4.13](#)
- [User Manual 4.12](#)
- [User Manual 4.11](#)
- [User Manual 4.10](#)
- [User Manual 4.9](#)
- [User Manual 4.8](#)
- [User Manual 4.7](#)
- [User Manual 4.6.1](#)
- [User Manual 4.5.1](#)
- [User Manual 4.4](#)
- [User Manual 4.3](#)
- [User Manual 4.2](#)
- [User Manual 4.1](#)
- [User Manual 4.0](#)
- [User Manual 3.4.1](#)
- [User Manual 3.3](#)

Tutorials

- [Tutorials 4.15](#)

- [Tutorials 4.14](#)
- [Tutorials 4.13.5](#)
- [Tutorials 4.12.1](#)
- [Tutorials 4.8.1](#)
- [Tutorials 4.5.1](#)
- [Tutorials 4.4](#)
- [Tutorials 4.1](#)
- [Tutorials 4.0](#)

Links

- [CNES freeware server](#)

Navigation

- [Accueil](#)
- [Modifications récentes](#)
- [Page au hasard](#)
- [Aide](#)

Outils

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

- Dernière modification de cette page le 4 août 2019 à 13:05.

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

- 