

Catégorie:User Manual 3.4.1 Attitude

De Wiki

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

[Catégorie:User Manual 3.4.1 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.

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 3.4.1 Attitude »

Cette catégorie contient 8 pages, dont les 8 ci-dessous.

U

- [User Manual 3.4.1 AngularCoordinates, Attitude and Transform : how to use them](#)
- [User Manual 3.4.1 Attitude ephemeris](#)
- [User Manual 3.4.1 Attitude law](#)
- [User Manual 3.4.1 Attitude leg](#)
- [User Manual 3.4.1 Directions](#)
- [User Manual 3.4.1 Guidance commands](#)
- [User Manual 3.4.1 Kinematics](#)
- [User Manual 3.4.1 Slew](#)

Récupérée de

« http://patrius.cnes.fr/index.php?title=Catégorie:User_Manual_3.4.1_Attitude&oldid=1360 »
[Catégorie](#) :

- [User Manual 3.4.1](#)

Menu de navigation

Outils personnels

- [3.22.51.241](#)
- [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 V4.13 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 4.13](#)
- [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 4.5.1](#)
- [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 1 mars 2018 à 15:53.

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

