

# ImpulsiveManeuverSpecificFrame 4.4

De Wiki

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

[ImpulsiveManeuverSpecificFrame 4.4](#)

```
public class ImpulsiveManeuverSpecificFrame {

    public static void main(String[] args) throws PatriusException {

        // Creating a mass model with a main part and with a tank
        final AssemblyBuilder builder = new AssemblyBuilder();

        // Main part (dry mass)
        final double dryMass = 1000.;
        builder.addMainPart("MAIN");
        builder.addProperty(new MassProperty(dryMass), "MAIN");

        // Tank part (ergols mass)
        final double ergolsMass = 100.;
        builder.addPart("TANK", "MAIN", Transform.IDENTITY);
        builder.addProperty(new MassProperty(ergolsMass), "TANK");

        final Assembly assembly = builder.returnAssembly();
        final MassProvider mm = new MassModel(assembly);

        // Event corresponding to the criteria to trigger the impulsive
maneuver
        // (when the S/C is at the apogee)
        final EventDetector event = new AnomalyDetector(PositionAngle.TRUE,
FastMath.PI);

        // Creation of the impulsive maneuver (20 m/s int the x vehicle
direction)
        final Vector3D deltaV = new Vector3D(20., 0., 0.);
        final double isp = 300.;
        final Frame GCRF = FramesFactory.getGCRF();
// SPECIFIC
        final ImpulseManeuver imp = new ImpulseManeuver(event, deltaV, GCRF,
isp, mm, "TANK");
// SPECIFIC

        System.out.println("DV components: "+imp.getDeltaVSat());
        System.out.println("Maneuver frame: "+imp.getFrame());

    }

}
```

Récupérée de

« [http://patrius.cnes.fr/index.php?title=ImpulsiveManeuverSpecificFrame\\_4.4&oldid=2498](http://patrius.cnes.fr/index.php?title=ImpulsiveManeuverSpecificFrame_4.4&oldid=2498) »

# Menu de navigation

## Outils personnels

- [3.17.179.132](#)
- [Discussion avec cette adresse IP](#)
- [Créer un compte](#)
- [Se connecter](#)

## Espaces de noms

- [Page](#)
- [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](#)
- [Citer cette page](#)
  
- Dernière modification de cette page le 3 octobre 2019 à 12:49.
- [Politique de confidentialité](#)
- [À propos de Wiki](#)
- [Avertissements](#)
  
- 