

UML

Principia

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period 5

Vector

- double compX
- double compY
- double compZ
- double magnitude
- double thetaXY
- Unit unitSI

- + ... get...()
- + ... set...()
- + double calculateMag()
- + double calcThetaXY()

Scalar

- double magnitude
- Unit unitSI

- + ... get...()
- + ... set...()
- + Scalar reciprocal()

Woo

- + void main

Woo.pde

Solver

- + Vector calcVelocity(Vector, Scalar)
- + Vector calcForce(Vector, Scalar)
- + Scalar calcWork(Vector, Vector)

→ data.txt

Unit

- int[] unitArr

- + ... get...()
- + ... set...()
- + Unit reciprocal()

Operations

- + double dotProduct(Vector, Vector)
- + double angleBetween(Vector, Vector)
- + Vector scale(Vector, Scalar)
- + Unit product(Unit... args)
- + Vector cross(Vector, Vector)

Catalog

- + String[] listTopics
- + TopicTreeNode root

TopicTreeNode

- = String topic
- TopicTreeNode[] subtopics

TopicTree

- = TopicTreeNode root
- + void addChild(TTN)
- + ArrayList<TTN> getChildren()

navigation
of topics