

Forces and Interactions in STEP

Ranjani Ranganathan

IT for Change, Bengaluru

<http://www.ITforChange.net>

Talk to a Teacher Project

<http://spokentutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

August 2011



Ranjani Ranganathan

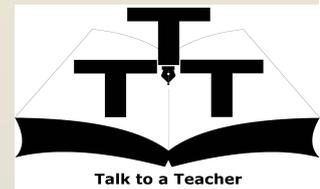
Forces and interactions in STEP

Lesson Outline

- In this tutorial we will look at how to add forces

Lesson Outline

Click on Applications, Education and scroll down to STEP to open it



Lesson Outline

For an introduction to STEP, please see
www.spoken-tutorial.org

In this tutorial, I have worked on Ubuntu version
10.04 LTS and STEP version 0.1.0



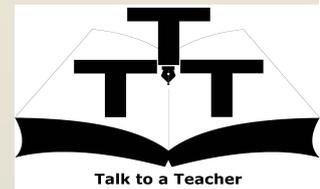
Lesson Outline

Add springs



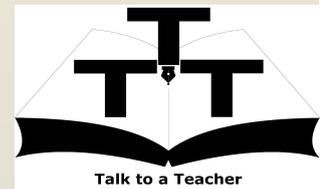
Lesson Outline

Simulate a linear motor



Lesson Outline

Simulate a circular motor



Lesson Outline

Add gravitational forces



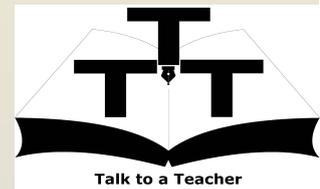
Lesson Outline

Add a tracer



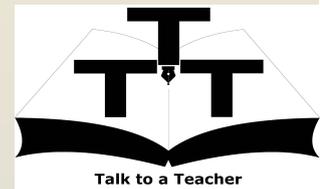
Assignment

Introduce two charged particles



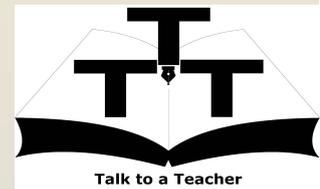
Assignment

One is positive and the other is negative



Assignment

Add the electrostatic force



Assignment

Simulate the interaction when both particles are at rest

Assignment

Simulate when one of the particles is moving

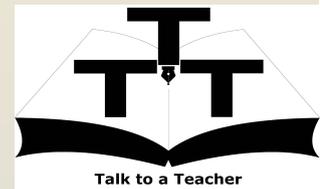
Acknowledgement

- Spoken Tutorial Project is a part of Talk to a Teacher Project



Acknowledgement

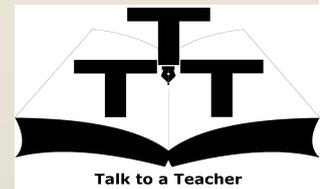
Supported by the National Mission on Education through ICT, MHRD, Government of India



Acknowledgement

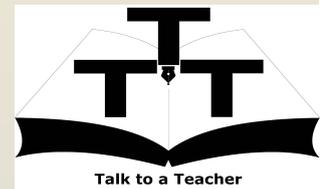
More information:

<http://spoken-tutorial.org/NMEICT-Intro>



Acknowledgement

Thank you



Ranjani Ranganathan

For ces and Interactions in STEP