

A. *Inclination* was written by Jeffrey Adams, David Holscher and Frank Volkers. It was developed in support of the Integrated First-Year Curriculum in Science, Engineering, and Mathematics at Rose-Hulman Institute of Technology. This curriculum project is supported by the National Science Foundation, the General Electric Foundation, and Lilly Endowment, Inc. If you are interested in this or any other application written for the Rose-Hulman Institute of Technology Integrated First Year Curriculum, please contact us at **ifycsem@nextwork.rose-hulman.edu**. The following people are currently serving as professors for the curriculum and would welcome your comments and questions:

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- B. *Inclination* best fits in the physics category.
- C. *Inclination* simulates (in two dimensions) the reaction of a block placed on an inclined plane. The size and weight of the block, the angle of the plane, the coefficients of friction of the plane, other external forces, and the initial velocity of the block may be set by the user. The system can be analyzed with various features such as the *Data Grapher* or the *Energy Monitor*.

- D. *Inclination* is used as part of the Integrated First Year Curriculum in physics classes to demonstrate principles of friction, acceleration, kinetic and potential energy and reaction forces.
- E. *Inclination* was developed under NeXTSTEP 2.1.
- F. *Inclination* requires no special installation.
- G. The Documentation folder included with the application is required for online documentation built into the application. If it is removed, the application will

still function properly, except for Help.