

Physclips: Multi-level multimedia resources

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Physclips is a multi-level, multimedia introduction to mechanics, waves and sound, electricity and some other areas of introductory physics, covering the levels from late high school to first year university. It combines film clips of experiments with animations, diagrams and explanations in both voice-over and text. Particularly powerful are film clips integrated with animated material such as dynamic displacement-time plots, moving vectors and histograms representing time-varying quantities in the clips. Each topic has a brief multimedia overview, which branches via links to extensive supporting material giving broader and deeper discussion. In the most recent addition, each chapter has a laboratory section to provide hands on activities utilising some common, inexpensive components. For teachers, there is a "downloads" page to select individual re-usable learning objects for use in lessons or to download zipped collections of entire sections.

Keywords: physics, multimedia, animations, laboratories.



Overview of website structure

Physclips can be viewed at http://www.animations.physics.unsw.edu.au/

The elements



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