Conceptual Learning Approach to Waves (Project CLAW) website: http://electron.physics.buffalo.edu/claw/. This website contains a large number of Flash simulations on waves, their behavior and interactions. Each section of the website also has questions that relate to the simulations that are meant to check for understanding of the important concepts. Nominated by the author Frank Nappo of Lockport HS Physics <fjnappo@aol.com>, who solicits reader input.

Jearl Walker’s Flying Circus of Physics website and blog: http://www.flyingcircusofphysics.com. The Flying Circus of Physics (earlier versions with and without answers) was a well-known book in the physics world that just went through a new edition. Walker is famous for popularizing the leidenfrost effect demos (with molten lead, liquid nitrogen, and hot coals) and the bed of nails demo, and his website contains many pictures of these (readers are strongly cautioned not to try these without guidance and Walker can be contacted via the website). An entertaining physics website nominated by John Hubisz, editor of the Book Reviews column.

Brant Hinrich’s collection of web resources used for teaching modern physics topics:


- **Conceptual Quantum Mechanics:** The first URL points to materials that were developed for high school students, but are appropriate for introductory college students as well. The other two links are for college-level material. The Kansas State Physics Education Group has researched and developed a wide suite of simulation-based tutorials called Visual Quantum Mechanics: http://phys.educ.ksu.edu/. Topics include Solids & Light, Waves of Matter, Potential Energy Diagrams, Luminescence, and Exploring the Very Small. The University of Maryland Physics Education Research Group has researched and developed A New Model Course in Quantum Mechanics: http://www.physics.umd.edu/perm/qm/qmcourse/welcome.htm. Materials, which are paper-and-pencil or computer-based include Tutorials, Applied Homework, Essay Questions, and Software. There is also an instructor’s guide and a section on “Understanding How Students Learn.” The University of Colorado Physics Education Research Group has developed a vast array of online simulations through their Physics Education Technology (PhET) initiative that include 17 on Quantum Phenomena: http://phet.colorado.edu/web-pages/index.html. Besides the standard topics they also cover Double Wells and Covalent Bonds, Nuclear Physics, Conductivity, Semiconductors, Band Structure, Stern-Gerlach, etc.

- **Advanced (Mathematical) Quantum Mechanics:** The University of Pittsburgh is researching and developing Quantum Interactive Learning Tutorials (QuILT): http://www.phyast.pitt.edu/~cls/quantum/. Topics include Time Evolution of Wave Functions, Product Spaces, Quantum Measurement, Expectation Values, etc.

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