

SpectraQuest introduces the 4/6 cylinder internal combustion engine simulator

- *Uniquely designed apparatus to enhance learning*
- *Visually illustrates the principles of an internal combustion engine*
- *Validate theoretical principles with measured response*
- *Learn balancing and timing of input/exhaust valves*
- *Robust, bench top device for hands-on controlled experiments and demonstrations*
- *Can be incorporated with the current curriculum*



Press Release, October 26, 2009

SpectraQuest introduces a 4/6 cylinder internal combustion engine simulator, specifically designed to simulate the mechanical working of an internal combustion engine. Students can learn balancing, timing of input/exhaust valves, and instrumentation. The simulator is available in both 4 cylinder and 6 cylinder versions, and also with V-cylinder design. The apparatus is designed to visually illustrate sometimes elusive concepts to expedite learning. We also offer a set of instrumentations including sensors, data acquisition hardware, analysis and simulation software, and training manual to go along with the simulator. The associated equations are solved graphically and are animated in the software. A set of instrumentation is provided with each apparatus that allows performing actual experiments and verifying those results with the simulation, thereby reinforcing the learning difficult principles. It is an ideal tool for learning the principles of engine both at under graduate and graduate levels.

It also comes with a training book and complete operations manual & videos to assist with exercises and learning. Please download the brochure at <http://www.spectraquest.com/resources/downloads/> for more details.

About SpectraQuest

SpectraQuest is a leading developer and manufacturer of turnkey systems and products for enhancing reliability of rotating and reciprocating machinery. These products are ideal platform for research and education in machine fault diagnosis/prognosis, teaching dynamics and vibration courses, and wind turbine drivetrain studies. The distinguishing feature of SpectraQuest is a wide variety of Machinery Fault Simulators and Custom Designed Test Rigs which are sold in over forty five countries around the world. Further information is available at <http://www.spectraquest.com/>.

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