

Abstract Submitted
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Electricity and Magnetism Self-Testing and Test Construction Tool GAY STEWART, JOHN STEWART, University of Arkansas — This talk presents an online resource for teaching and evaluating introductory electricity and magnetism classes. The resource contains a library of highly characterized, multiple-choice, conceptual and quantitative electricity and magnetism problems and solutions all linked to a free online textbook. The library contains over 1000 classroom tested problems. Each problem is characterized by the complexity of its solution and by the fundamental intellectual steps found in the solution. Exam construction, administration, and analysis tools are provided through the resource's website. Problems may be downloaded for use in exams or as clicker questions. Instructors may also design and administer assignments online. A self-testing tool is provided for students or instructors, an excellent tool for brushing up on conceptual electricity and magnetism. Conceptual inventory scores produced by the site are normed against the Conceptual Survey in Electricity and Magnetism. There is no cost associated with using any of the facilities of the site and you can begin to use the site immediately. Supported by NSF - DUE 0535928. Site address <http://physinfo.uark.edu/physicsonline>.

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