



E&M TIPERs: Electricity & Magnetism Tasks

By C. J. Hieggelke, D. P. Maloney, T. L. O'Kuma, Steve Kanim

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A workbook for electricity and magnetism in introductory physics courses. TIPERs (Tasks Inspired by Physics Education Research) is *the most complete* set of conceptual exercises (tasks) available for electricity and magnetism. This workbook contains **OVER 300** tasks that focus on conceptual understanding and reinforce the sense that the *ideas* of science have coherence and power that extends beyond the facts and equations.

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Editorial Review

Review

“TIPERS are very valuable formative assessment activities that help students develop qualitative reasoning and quantitative problem solving abilities. I use TIPERS and TIPER-like activities in every class that I teach.” **Alan Van Heuvelen, Rutgers University**

“TIPERS provide an effective way of detecting student misconceptions when used for pre-testing purposes. As a post-test ingredient, they enable an instructor to check the student's mastery of a particular topic. I heartily recommend them as a pedagogical tool at all levels of physics instruction.” **John Splett, Erie Community College**

“The TIPERS project embodies the best of pedagogy that is consonant with contemporary physics education. TIPERS is contextual, interactive, involves multiple representations of physics concepts and provokes both analysis and synthesis on part of the students.” **J.B. Sharma, Gainesville College**

“I have found E&M TIPERS to be an exceptionally useful resource in my physics classroom. Since virtually the day after I first learned about these, I have been using them regularly in all three levels of physics that I teach (calculus-based, algebra-based, and liberal arts physics). I know of no other resource that I have encountered that has been as effective or seamless to integrate into my curriculum.” **Erik Christensen, South Florida Community College**

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