**Transformed E&M I materials**

**Auxiliary Field H**

**(including Boundary Value Problems)**

**(Griffiths Chapter 6)**

**STUDENT DIFFICULTIES**

**What is H? (\*\*)**

* Students understand that H is used “like B” for free current, but they often don’t understand why. Instructors often tell students that H is used by engineers, but many students need to explicitly struggle with H in order to understand that H depends on what we *know* (the *free* current).