



|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | P 25, Chap 30: As seen in Fig. [30-53](http://edugen.wiley.com/edugen/courses/crs1650/reference/xlinks/halliday8019c30xlinks.xform?id=halliday8019c30-fig-0053), a square loop of wire has sides of length 2.0 cm. A magnetic field is directed out of the page; its magnitude is given by http://edugen.wiley.com/edugen/courses/crs1650/art/math/halliday8019c30/math324.gif, where *B* is in tesla, *t* is in seconds, and *y* is in meters. At http://edugen.wiley.com/edugen/courses/crs1650/art/math/halliday8019c30/math325.gif, what are the (a) magnitude and (b) direction of the emf induced in the loop?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| http://edugen.wiley.com/edugen/courses/crs1650/art/common/pixel.gif |

|  |
| --- |
| http://edugen.wiley.com/edugen/courses/crs1650/art/common/pixel.gif |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| http://edugen.wiley.com/edugen/courses/crs1650/art/common/pixel.gif |
| http://edugen.wiley.com/edugen/courses/crs1650/art/images/halliday8019c30/image_t/tfg053.gif |

 |

 |

 |

 |
|