

E field Angle

Source: <http://sci.tech-archive.net/Archive/sci.physics.research/2006-07/msg00062.html>

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 - *Date:* Thu, 13 Jul 2006 00:10:07 +0000 (UTC)
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Theoretically, the Electrical (E) field associated with a conductor is at exactly 90 degrees with respect to that conductor.

It appears, however, that real conductors behave differently and that the E field associated with a real conductor is at an angle that is slightly displaced from 90 degrees.

What are the parameters that govern this angle, and what is the range of angles that is likely to be encountered with typical conductors such as Cu, Al, Ag and others? What angular difference (if any) is there between a DC field and an AC field with the same peak V/M amplitude?

Thanks!

Bill Miller

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