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Page 8 - The volt, which has the value 10s in terms of the centimetre, the gramme, and the second of time, being the electrical pressure that if steadily applied to a conductor whose resistance is...

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where is time, is the frequency of 50 Hz and and are the phases of the respective waves (the phase describes how far the wave is shifted along the horizontal axis), and and are the amplitudes of the respective waves (their heights).. Electricity is complex. To represent an AC voltage, electrical engineers make extensive use of complex numbers. The imaginary number satisfies the equation

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Complex electricity | plus.maths.org

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answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of:

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