

# ELECTRONICS WORLD

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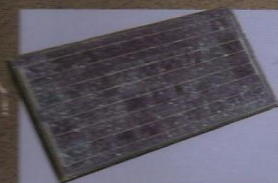
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**ELECTRONIC IGNITION**  
CAPACITIVE-INDUCTIVE COMBO  
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## APPLE'S STRATEGIES

IS APPLE NO LONGER JUST A COMPUTER COMPANY?

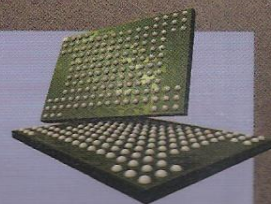


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THE UNIVERSE  
AND  
ELECTRONICS

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ALSO IN THIS ISSUE: THE TROUBLE WITH RF... • UKDL • CIRCUIT IDEAS



# Letters

PLEASE EMAIL YOUR LETTERS TO:  
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## Looking for the right friend or foe

Thank you for a great magazine.

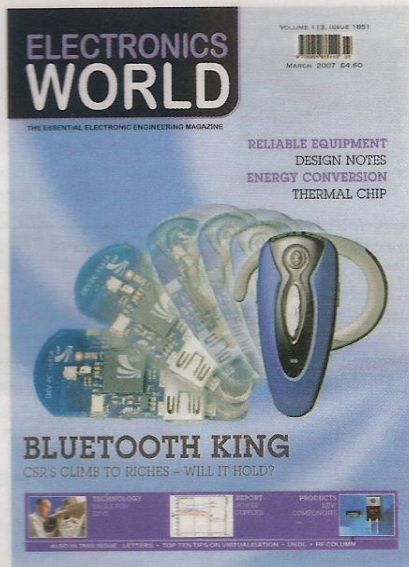
I have just been reading the book review on Military Avionics Systems, (March 2007, page 44), reviewed by Carl Holden. I couldn't help chuckling to

myself at the suggestion that 'IFF' is short for 'Intercept Friend or Foe'.

Did this actually come out of the book, I wonder; a book written by somebody who spent "20 years in the Royal Air Force".

IFF actually stands for 'Identify Friend or Foe'. Rather a different concept – you'd have to agree.

For what it's worth, I will still be buying the book!



**Simon Beer**  
Technical Director  
Integrated Circles Ltd

## Old philosophers and the Universe structure

Recently I received a book from my relative from India who is a Hinduism researcher. It is a religious book, containing sutras written by a Hindu saint named Maharishi Jaimini, who is believed to have lived around 4000 years before Christianity started.

I was attracted to the way he presented his sutras, which come across as very scientific. As such, I thought that Electronics World readers might be interested to know about it.

One of the branches of Jaimini's philosophy discusses the structure of the Universe. According to his theories, the Universe is exact in structure as that of the atoms. One example is the solar system, in which the negatively charged elements (electrons) are moving around the positively charged elements (protons). The Sun is considered to be a 'proton' as it radiates positively-charged particles and the other planets around the Sun are seen as electrons, which are held by it.

This theory applies to Earth as well. Everything on Earth is made of atoms. But, if we break down further the atomic structure, it becomes nothing. So, the other messages that come from Jaimini are: "Everything that exists comes from nothing" and "Energies are neither created nor destroyed". Thirdly, the groups of atoms can be manipulated without losing the elements (protons/electrons). To break the links between them, they have to be 'forced' with some sort of energy; voltage, for example. Whichever electron splits away, it is classified as a movable particle (current) and the static/unmovable particles become an obstruction to the flow of movable particles. These are effectively the 'electric resistance'; hence, Jaimini reveals that "Nothing is an insulator when the force is infinite". As we know, the relationship of voltage, current and resistance are defined by Georg Simon Ohm as Ohm's Law, but it was explained only for Electrical Engineering purposes rather than as a universal analysis.

The same principle is applied to the magnetic field, as well as the optical field. But Jaimini did not write much about the magnetic field. However he did state

that the Universe has three major fields – electric, magnetic and luminous.

A simple natural phenomenon was defined by Jaimini as follows: The clouds are positively charged because they are pulled by Sun as vapour (X changes its characteristic when closed to something strong Y). When the clouds hit one another, this produces a lightning, which then travels to Earth to establish the shortest closed loop.

The Sun is designated as positive potential and the Earth (including the other planets) is designated as the negative potential. The medium of conduction is the atmosphere, which all fulfill the rules of electricity.

The beauty of Jaimini's work is actually defining the structure of the Universe and then compares it to that on Earth. What wonderful theories!

Adapted from "Jaimini Philosophy, 4000 BC".

**Nachimani Charde**  
Malaysia

