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at long last a promising dialogue between science and medicine has begun a focal point of this discussion is healing and how it happens jack w geis shows how modern physics and spirituality are centrally involved in this debate no one who is interested in the current interface between science spirituality and medicine can afford to neglect his ideas larry dossey md author healing beyond the body and healing words the power of prayer and the practice of medicine this book introduces some of the most perplexing and exciting aspects of the revolution going on in physics today as it continues toward an increasingly metaphysical basis for defining reality this exciting scientific revolution should be shared by everyone and the issues taken up in this book form a basis for that participation that the math is not in the chalk is becoming increasingly evident as well as the question as to which is more substantial dr laurance r doyle astrophysics and planetary science center for the study of life in the universe seti institute

annual proceedings of the john chappell natural philosophy society cnps which accepts papers that challenge mainstream physics and cosmology these proceedings are in conjunction with the 1st annual conference in 2015 of the cnps at florida atlantic university boca raton florida

blended learning combines the conventional face to face course delivery with an online component the synergetic effect of the two modalities has proved to be of superior didactic value to each modality on its own the highly improved interaction it offers to students as well as direct accessibility to the lecturer adds to the hitherto unparalleled learning outcomes blended learning in engineering education recent developments in curriculum assessment and practice highlights current trends in engineering education involving face to face and online curriculum delivery this book will be especially useful to lecturers and postgraduate undergraduate students as well as university administrators who would like to not only get an up to date overview of contemporary developments in this field but also help enhance academic performance at all levels

ferromagnetism is a form of magnetism that can be acquired in an external magnetic field and usually retained in its absence so that ferromagnetic materials are used to make permanent magnets a ferromagnetic material may therefore be said to have a high magnetic permeability and susceptibility which depends upon temperature examples are iron cobalt nickel and their alloys ultimately ferromagnetism is caused by spinning electrons in the atoms of the material which act as tiny weak magnets they align parallel to each other within small regions of the material to form domains or areas of stronger magnetism in an unmagnetised material the domains are aligned at random so there is no overall magnetic effect if a magnetic field is applied to that material the domains align to point in the same direction producing a strong overall magnetic effect permanent magnetism arises if the domains remain aligned after the external field is removed ferromagnetic materials exhibit hysteresis in 2004 it was discovered that a certain allotrope of carbon nanofoam exhibited ferromagnetism the effect dissipates after a few hours at room temperature but lasts longer at cold temperatures the material is also a semiconductor it is thought that other similarly formed materials of boron and nitrogen may also be ferromagnetic this new book rings together leading research from throughout the world

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the seventh wieler shows an alternate approach to vampires magic and technology an engineer finds himself amidst a political battle for the magical underworld of los angeles with only his knowledge of science and social graces to see him through

this handbook of quantitative thinking provides an interconnected and unusually thorough look at the world around us from small things such as soap bubbles to big things such as ships and buildings quantitative questions are posed and answered in comprehensive case studies when necessary rough estimates are provided how much soap is in a soap bubble what is the volume and the weight of the water film enclosing a soap bubble what is the thickness

of a line drawn with a pencil how many carbon dioxide molecules does a burning candle produce per photon of visible light emitted how many sugar cubes can keep you alive for 90 days how many mars trademark bars do you need to fly to planet mars and back if the mars bars are your only food how much oxygen does a field tree produce per year how many shiploads of liquefied natural gas lng would germany need per year if the central heating units in all buildings ran on gas imported from overseas by how much is a church tower shorter owing to the compression of the bricks and the mortar under the weight of the structure how much energy is needed globally for making bread and cooking rice how does that figure relate to germany s total energy demand since they are deeply interested in the physical world around them children physicists and engineers will surely like the questions raised in this book and the answers given future consultants may have to answer questions like the following ones in job interviews what is a needle in a haystack in ppm or ppb how many trees per year do you need to supply a country with toothpicks the book also contains an index of quantitative data occurring in the case studies and in other sources sorted by type and magnitude the bibliography alerts the readers to a multitude of books covering related subject matter

this book argues that the traditional image of feyerabend is erroneous and that contrary to common belief he was a great admirer of science it shows how feyerabend presented a vision of science that represented how science really works besides giving a theoretical framework based on feyerabend s philosophy of science the book offers criteria that can help readers to evaluate and understand research reported in important international science education journals with respect to feyerabend s epistemological anarchism the book includes an evaluation of general chemistry and physics textbooks most science curricula and textbooks provide the following advice to students do not allow theories in contradiction with observations and all scientific theories must be formulated inductively based on experimental facts feyerabend questioned this widely prevalent premise of science education in most parts of the world and in contrast gave the following advice scientists can accept a hypothesis despite experimental evidence to the contrary and scientific theories are not always consistent with all the experimental data no wonder feyerabend became a controversial philosopher and was considered to be against rationalism and anti science recent research in philosophy of science however has shown that most of feyerabend s philosophical ideas are in agreement with recent trends in the 21st century of the 120 articles from science education journals evaluated in this book only 9 recognized that feyerabend was presenting a plurality of perspectives based on how science really works furthermore it has been shown that feyerabend could even be considered as a perspectival realist among other aspects feyerabend emphasized that in order to look for breakthroughs in science one does not have to be complacent about the truth of the theories but rather has to look for opportunities to break rules or violate categories mansoor niaz carefully analyses references to feyerabend in the literature and displays the importance of feyerabend s philosophy in analyzing historical episodes niaz shows through this remarkable book a deep understanding to the essence of science calvin kalman concordia university canada in this book mansoor niaz explores the antecedents context and features of feyerabend s work and offers a more nuanced understanding then reviews and considers its reception in the science education and philosophy of science literature this is a valuable contribution to scholarship about feyerabend with the potential to inform further research as well as science education practice david geelan griffith

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this book is for anyone interested in renewable energy for a sustainable future of mankind batteries fuel cells capacitors electrolyzers and solar cells are explained at the molecular level and at the power plant level in their historical development in their economical and political impact and social change cases from geophysics and astronomy show that electrochemistry is not confined to the small scale examples are shown and exercised

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