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Distinction of Consciousness Fields According to Taheri from Other Conventional Physical Fields: Evaluating the Magnetic Properties of Materials

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**Abstract**

Magnetization hysteresis loop provides important information about the magnetic properties of materials. In this study, by examining the magnetic properties of three paramagnetic and diamagnetic materials in the vicinity of the Consciousness Fields (three types 1, 2 and 3), we have investigated the nature of the Consciousness Fields in comparison with magnetic field. The magnetic properties of the materials under the influence of three distinct Consciousness Fields have changed significantly. Furthermore, the Consciousness Field 1 of the present study (with originally named Consciousness Bond Field by Taheri) has changed the magnetic properties of materials toward their physically inherent state in standard laboratory conditions. Based on the conditions and the results of the present study, it can be concluded that the Consciousness Fields are inherently neither electric nor magnetite fields and have a completely different and distinct impact on materials and their properties.

Keyword: Consciousness Fields, hysteresis loop, magnetic properties, physical fields
1. Introduction

Magnetic properties of materials depend on their composition and microstructure. Those properties that depend mainly on composition are intrinsic properties (Roth, 2001). Vibrating-sample magnetometer (VSM) is a versatile technique that described in 1950s for characterization of magnetic properties of materials (Foner, 1959). Based on the behavior of materials in an external magnetic field, they are usually classified into three major types: (1) diamagnetic materials such as gold are repelled when placed in a magnetic field, (2) paramagnetic materials such as platinum can be magnetized but magnetization disappears by removing the external field, and (3) ferromagnetic materials such as iron and nickel exhibit the strongest magnetic behavior and remain magnetized even after removing the external magnetic field. New magnetic phases can be induced by applying external pressure (Kamarad, 2014), temperature (Chaddah and Roy 2001) and external magnetic field (Kuwahara et al, 1995). Technical information about the magnetic properties of materials can be obtained by studying the hysteresis loop, which expresses the relationship between the magnetic field strength (H) and magnetization of the material (M).

The magnetic properties of pure metals and nanoparticles have long been studied in various environmental conditions. The saturation magnetization and its related magnetism alterations of very pure iron and nickel (Crangle and Goodman 1971), nonmagnetic oxides (Sundaresan et al 2006) and Porous Anodic Aluminum (PAA) (Sun et al 2013) at room temperature, and aluminum and copper at low temperature (Reekie and Hutchison 1948) have been studied. The limited observed changes are attributed to the motion of free electrons in the metal lattice and the change in the physical structure of the nanoparticle lattice as a result of the application of an external magnetic field.
Humans have always been curious to know the world around them. There have been many attempts to explore and explain diverse physical laws. For example, Newton’s law of gravity and Maxwell’s electromagnetism equations. Grand unification theory (GUT) is another attempt that suggest the unification of the fundamental forces of nature and Quantum physics has shown that some physical laws extend beyond the material world (Aquino, 1999). There have been many attempts to explore and explain diverse physical laws. For example, gravity, electromagnetic, electric field etc. The field concept is used frequently in physical theories. About forty years ago Mohammad Ali Taheri introduced a so-called Consciousness Fields (CFs) that is completely different from all known physical fields. According to his theory, Consciousness is one of the three elements of the universe that is neither matter, nor energy, but that has direct effect on both matter and energy through specific and distinct non-material, non-energetic fields called the Consciousness Fields (CFs) which are the subcategories of a richly networked universal internet called the Cosmic Consciousness Network (CCN). The mentioned CFs are one of the achievements of using the CCN, in which all the component of the universe as a user receive troubleshooting and optimization by “Etesal” (virtual connecting) to the CCN.

The CFs based on its position of influence and the special type of function, has several types, one of which is Consciousness Bond Field and it can be applied to all form of matter and energy, such as building blocks of atoms, atoms, molecules etc. Consciousness Bond Field establishes a consciousness bond between the whole consciousness and the parts.

The applied CFs according to Taheri, is mediated by announcer’s mind (a person who makes a virtual connection). In this type of affection, mind-matter interaction occurred through connecting to the CCN. In other words, according to the theory of the consciousness field, the human mind, has an intermediary role in this affection and the main achievement obtained as a result of the
operation of the CFs. However, in cognitive science and neuroscience, mind is considered with an active role which has an interaction with the world of matter and energy.

By defining consciousness as neither matter nor energy we cannot associate a quantity to it. Since Consciousness isn’t measurable its existing can only be known through experience. Although, the mechanism of this linkage is not yet definable by science, its consequences can be measured and studied scientifically.

Accordingly, Sciencefact has been introduced by Mohammad Ali Taheri in 2020. Sciencefact discovers evidence of influence of Consciousness Fields on the world of matter and energy. On the other hand, conventional science studies only matter and energy. Investigations, usage, and applications of consciousness in Sciencefact distinguishes it from conventional science. The common point between science and Sciencefact is that both can be experienced at the level of matter and energy through reproducible laboratory experiments. In fact, the world of science is seen as a tool for the emergence of Sciencefact evidence. So far, in several studies, the effects of the CFs on MCF7 cancer cell line (Taheri et al, 2020a), Alzheimer’s disease rat models (Taheri et al, 2021), spatial memory and avoidance behavior of a rat model of Alzheimer’s disease (Taheri et al, 2021), Wheat plant (Torabi et al, 2021), Viral growth (Taheri et al, 2021), Bacterial population growth (Taheri et al, 2021) and the electrical activity of the human brain under the influence of CF (Taheri et al, 2020b) have been investigated.

This study is the beginning of examining the third component of the universe apart from the world of matter and energy, so-called consciousness by Taheri, and examining its effect on the world of matter and energy in an experimental typical physics study in a laboratory scale with the ability to replicate and reproduce its results. Accordingly, the present study has been designed with three purposes: First, to investigate the existence of the CFs in practice and in a purely physical study.
Second, to study the difference between the theoretical nature of the CFs and other physical fields in the experimental assay. And third, to study the type of effect of the Consciousness Bond Field on the level of the target material, in comparison with other CFs.
2. Materials

The saturation magnetization of materials is one of the intrinsic properties of materials. In this study, the changes to the saturation magnetization of materials are measured in the presence of three different CFs according to Taheri, once in the absence and once in the presence of metal shields with different thicknesses. Three categories of magnetic materials in powder form are examined: Nickel (Ni) as ferromagnetic, Alumina (Al2O3) as quasi-ferromagnetic, and Copper (Cu) as diamagnetic. The use of metal shields with different thicknesses is to obtain possible evidence of the distinction between the CFs and other conventional physical fields. Throughout the experiments, the control samples were placed in the lower compartment with no steel shields. The test samples were placed on the upper compartment, once with no shield and once inside cylindrical stainless-steel shields. The test setup and shields specifications are presented in the following figure and table.
Figure 1. Schematic cylindrical metal shield dimensions (a) and three metal shields of the present study (b).

Table 1. Dimensions of the cylindrical stainless-steel shields

| Shield Number | Material     | H (mm) | OD (mm) | ID (mm) | t (mm) |
|---------------|--------------|--------|---------|---------|--------|
| 0             | No shield used | -      | -       | -       | -      |
| 1             | Stainless-steel | 20.6   | 21.0    | 6.0     | 7.5    |
| 2             | Stainless-steel | 19.0   | 21.0    | 10.0    | 5.5    |
| 3             | Stainless-steel | 16.3   | 21.0    | 16.0    | 2.5    |
3. Method

3.1 Hysteresis Measurements

The magnetic properties of the samples were measured using a Vibrating Sample Magnetometer (VSM), which operates based on Faraday’s induction law. First, the sample is placed in a constant magnetic field. The applied magnetic field strength \( H \) magnetizes the specimen by aligning the magnetic domains or magnetic spins of the atoms or molecules in the direction of the magnetic field. The larger the magnetic field, the sample gets more magnetized. The magnetic moment generated in the sample induces a magnetic field around the sample. At this point, when the sample vibrates up and down, the induced magnetic field changes with time based on equation 1:

\[
\Phi = AH + B(4\pi - D)M_s \sin \omega t
\]

Where \( A \) and \( B \) are the geometric factors associated with the set of coils, \( D \) and \( M_s \) are the demagnetization and induction magnetization coefficients respectively, and \( \omega \) is the vibration frequency of the sample.

Changes in the induced magnetic field can be observed with the induced current in a coil set. This induced current (emf) is proportional to the induced magnetization of the sample based on equation 2:

\[
emf = \frac{d\Phi}{dt} = C(4\pi - D)M_s \omega \cos \omega t
\]

Where \( C \) is a constant.

By using VSM instrument, stronger magnetization generates larger induction current. The induced current is amplified and transmitted to a data acquisition system which is connected to a computer to record the data using related software which the results were controlled and recorded. The VSM
used in this study (Figure 2) is MDKB (Iran) with the accuracy of applying the external magnetic field strength (Hc) to the tenth of Orested (Oe) and the accuracy of measuring the magnetism (M) to the tenth of a thousand emu/g. The hysteresis curves which are the magnetization of the samples (M) versus the applied magnetic field strength (Hc) were plotted in figures 3-5.

3.2 Consciousness Fields Application

According to Taheri, a CF initiates its function by establishing a virtual connection between three components: (1) the Cosmic Consciousness Network (CCN) (Whole Consciousness), (2) the announcer, which is the Cosmointel website and its specialized team for this study, and (3) the subject under study, which are the samples of nickel, alumina, and copper in this study. Complete information on the basics of CFs theories and applications is available on the Cosmointel research website, and some of it in accordance with the results of the present study has been used in the discussion section.

Researchers from anywhere in the world can use the complimentary service (free) at any time to initiate the CFs for their studies. This can be done by visiting the Cosmointel website (www.cosmointel.com) and completing the application form for intervention in the assign announcement section. Researcher should provide the details of the sample under study including
its number and the exact time and place of the experiment. Also, the type of CF should be specified. After that, the influence of the required CF allocates in accordance with that study.

It is important to noted that this study is conducted in a double blind way. It means that the experts were completely unfamiliar with CFs theory. Also, the person who stablished consciousness bond was unfamiliar with the details of this study.
4. Results

In the present study, three materials with different magnetite characteristic are used and corresponding influence of three distinct CFs, CF₁, CF₂, and CF₃ have been investigated. All the sample materials are standard laboratory grades. The magnetic properties such as magnetization of the samples are presented in Table 2. Hysteresis plots of the samples are shown in Figures 3, 4 and 5.

Table 2. Specification and magnetization of the samples with different CFs treatment in this study

| Used CF | Material | Characteristic | Weight/mg | Treatment time/days | Interval¹/days | Name according to CF/shield No.² | M (emu/g) | ΔM | Change % |
|---------|----------|----------------|-----------|--------------------|---------------|---------------------------------|-----------|----|----------|
| CF₁     | Ni       | Ferromagnetic  |           | 5                  | 7             | Ni00 54.113 0.000 0             |           |    |          |
|         |          |                |           |                    |               | Ni11 57.291 3.1780 6            |           |    |          |
|         |          |                |           |                    |               | Ni12 56.804 2.6910 5            |           |    |          |
|         |          |                |           |                    |               | Ni13 57.783 3.6530 7            |           |    |          |
| CF₁     | Al₂O₃    | Quasi-ferromagnetic | 3         | 14                 | 7             | Alumina00 0.020 0.00 0          |           |    |          |
|         |          |                |           |                    |               | Alumina11 0.0150 -0.005 -25     |           |    |          |
|         |          |                |           |                    |               | Alumina12 0.00760 -0.0124 -62   |           |    |          |
|         |          |                |           |                    |               | Alumina13 0.00550 -0.0145 -73   |           |    |          |
|         |          |                |           |                    |               | Alumina10 0.013 -0.0070 -35     |           |    |          |
| CF₂     | Al₂O₃    | Quasi-ferromagnetic | 3         | 4                  | 11            | Alumina00 0.00283 0.000 0       |           |    |          |
|         |          |                |           |                    |               | Alumina20 0.00920 0.00637 225   |           |    |          |
|         |          |                |           |                    |               | Alumina21 0.01289 0.01000 355   |           |    |          |
|         |          |                |           |                    |               | Alumina22 0.00188 -0.00095 -34  |           |    |          |
|         |          |                |           |                    |               | Alumina23 0.04029 0.03746 1323  |           |    |          |
| CF₁/CF₂/CF₃ | Al₂O₃ | Quasi-ferromagnetic | 3         | 4                  | 11            | Alumina00 0.00283 0.000 0       |           |    |          |
|         |          |                |           |                    |               | Alumina10 0.00237 -0.00046 -16  |           |    |          |
|         |          |                |           |                    |               | Alumina20 0.00920 0.00637 225   |           |    |          |
|         |          |                |           |                    |               | Alumina30 0.00832 0.00549 1939  |           |    |          |
| CF₁/CF₂/CF₃ | Cu    | Diamagnetic    | 3         | 4                  | 11            | Cu00 0.00540 0.000 0             |           |    |          |
|         |          |                |           |                    |               | Cu10 0.00418 -0.00122 -23       |           |    |          |
|         |          |                |           |                    |               | Cu20 0.00467 -0.00073 -13.5     |           |    |          |
|         |          |                |           |                    |               | Cu30 0.01692 0.01152 213        |           |    |          |

1. Time between the end of treatment and beginning of the VSM test.
2. The first and second numbers stand for Consciousness Field numbers and shield numbers respectively. For example, Alumina21 mean Alumina sample with Consciousness Field 2 and shield number 1. Cu00 means copper sample with no Consciousness Field applied and no shield, which is the control sample for copper.
As shown in Figure 3, by applying the Consciousness Field 1 (CF1) to the nickel samples, the magnetization value of these samples increased.

Figure 3. Hysteresis plot of the Ni samples (a) and closer view at upper part (b).
The presence of a metal shield changes the effect of the CF 1 on the treated samples. Except for Ni12 sample, as the thickness of the shield increases, the magnetization value of the samples decreases. Moreover, influence of CF 1 besides two other CFs on Alumina samples shown in Figure 4.
Figure 4. Hysteresis plot of the alumina samples in different shields under the influence of (a) CF$_1$, (b) CF$_2$, and (c) CF$_1$, CF$_2$ and CF$_3$ in comparison with the control.
As can be seen in Figure 4a, by applying the CF$_1$ to alumina quasi-ferromagnetic samples, the magnetization value of these samples decreases. Similar to Ni samples test results, the presence of a metal shield changes the effect of CF$_1$ on the alumina samples: as the thickness of the shield increases, the magnetization value of the samples decreases. On the other hand, by comparing the control (Alumina00) and the sample affected by the CF$_1$ without shield (Alumina10) with Alumina12 and Alumina13 samples, one concludes that the shield thickness has impact on the response to CF$_1$ and the change in overall magnetization.

Figure 4b shows the change in magnetization of the alumina samples placed in different shields under the influence of CF$_2$. Contrary to the previous behavior of alumina samples under the influence of the CF$_1$, the alumina samples under the influence of CF$_2$ show completely opposite behavior, i.e., the magnetization increases significantly with increasing the shield thickness, except for the sample inside shield 2. Similar to samples responses to CF$_1$, CF$_2$ was more effective on the change in magnetization for the alumina samples in shields 1 and 3.

And finally, Figure 4c represents the change in magnetization of the alumina samples placed in different shields under the influence of CF$_3$. Unlike CF$_1$ and remarkably more than CF$_2$, CF$_3$ increases the magnetization of the alumina samples.
As shown in Figure 5, the effects of CF$_1$ and CF$_2$ on the copper samples are similar and are accompanied by a decrease in samples magnetization. The effects of CF$_3$ on the copper and alumina samples are similar in increasing the magnetization remarkably, in contrast to the effects of CF$_1$ and CF$_2$. 

Figure 5. Hysteresis plot of the Cu samples.
5. Discussion

The magnetization value of the nickel control sample (Ni00) at 30°C temperature is about 54.1 emu/g, which is very close to the reported value of 54.7 emu/g in the literature at this temperature. Crangle and Goodman (1971) reported the magnetization of nickel samples at 293 Kelvin (19.9°C) is about 55.1 emu/g and it increases with decreasing the temperature, and reaches to about 58.6 emu/g at 4 Kelvin. The magnetization value of the nickel sample in shield 3 (Ni13), with the lowest thickness, reached 57.8 emu/g under the influence of the Consciousness Bond Field (CF₁), which is equivalent to the observed magnetization for nickel at a temperature of about 140 Kelvin (-133.1°C), based on Crangle and Goodman (1971).

In powder form, alumina exhibits ferromagnetic behavior at room temperature due to the presence of oxygen vacancies and the exchange interactions between the electron spins (Sundaresan et al 2006 and Sun et al 2013). Sintering these nanoparticles at 1400°C and 1 bar pressure for one hour causes the resulting alumina mass to have a diamagnetic behavior (Sundaresan et al 2006). By applying the CF₁ to alumina samples, the amount of magnetization of this quasi-ferromagnetic material was reduced. Similar to the test results with nickel samples, the presence of a metal shield changes the magnetic behavior of material under the influence of CF₁, i.e., as the thickness of the shield increases the change of magnetization of samples decreases. On the other hand, the sample under influence of CF₁ without shield (Alumina10) has a magnetization value between those of Alumina11 and Alumina12. This shows the presence of the steel shield itself enhances the effect of the CF₁ in alumina samples to some extent. Moreover, the magnetization value obtained for Alumina13 sample at ambient temperature is $5.534 \times 10^{-3}$ emu/g, which is comparable to the magnetization value of $3.5 \times 10^{-3}$ emu/g for alumina nanoparticles sintered at 500°C (Sundaresan et
al 2006). This indicates that alumina under influence of CF₁ is close to its intrinsic minimum magnetization value.

The Consciousness Bond Field (CF₁) also reduces the saturation magnetism of the copper samples. CF₁ improves the magnetic properties of copper as a diamagnetic material, i.e., towards its inherent state. Similar behavior was observed in the nickel and alumina samples under the influence of CF₁ as well. Since the external magnetic field affects the saturated magnetism of materials and not the intrinsic magnetism (which is temperature dependent), the applied changes are only for treatment with CF₁ and the reproducibility of the experiment has been investigated several times.

Based on the results of this study on the effect of CF₂ on the samples, it is not possible to have definite conclusions. However, it is observed that the thickness of the shield has an effect on the rate of the change of the saturation magnetization of alumina samples under the influence of CF₂. On the other hand, the effects of CF₃ on all three types of materials in this study were clearly the opposite of the results observed in the presence of CF₁.
6. Conclusions

Hysteresis behavior of materials under the influence of a magnetic field provides significant information of intrinsic material properties. According to the theory of CFs introduced by Taheri, the function of Consciousness Bond Field (named CF$_1$ in the present study) is to repair, modify and treat the system under study in order to achieve the optimal conditions of that system. The goal of this study is to investigate the distinction of CFs, according to Taheri, from other physical fields. The effects of three different types of CFs on three materials with different magnetic characteristics have been investigated. The Consciousness Bond Field (CF$_1$) is considered as the main CF of this study. CF$_2$ and CF$_3$ have been considered to better distinguish and summarize the effectiveness of CF$_1$. By considering conditions applied in this research and the results in the presence of CF$_1$ in accordance with the theory of the CF function, as well as the results of the influences of CF$_2$ and CF$_3$, the following conclusions can be made:

(1) The existence of the CF and their effectiveness are clearly confirmed at laboratory scale and under controlled conditions. (2) The magnetic properties of materials enhanced remarkably under the influence of CFs treatment. More specifically, the magnetic properties of materials move towards their inherent optimal states under the influence of Consciousness Bond Field (CF$_1$). (3) Since the saturation magnetization value of a material cannot be increased or decreased by applying an electric or magnetic field, the CFs are neither electric nor magnetic fields, i.e., the CFs are not electromagnetic fields. (4) Since the shields thicknesses have clear reductive influence on the CF$_1$ effects on the magnetic properties of the materials, it can be concluded that the Consciousness Bond Field is applied from outside of the system under study, i.e., CF$_1$ has an external origin other than the system under study.
Based on the results of this study, the authors recommend further investigation on the effects of CFs according to Taheri on other physical properties of materials as well as comparing their influences with different types of energies.
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