2nd Int Congress Tesla 2017: Disruptive Innovation, 2-4 June 2017, Belgrade, Workshop 2: Tesla's Inspired Holistic Questions of Psychosomatics & Spirituality.

TESLA'S INSPIRED HOLISTIC QUESTIONS OF PSYCHOSOMATICS & SPIRITUALITY

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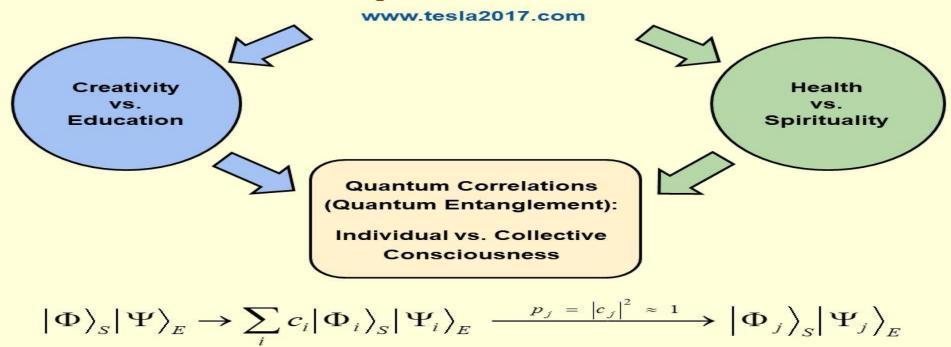
When we start to study 'non-physical' phenomena, we will progress more in ten years than we have for centuries.

Nikola Tesla

Abstract. Tesla's visions & inventions realized in his controlled altered states of consciousness, are proposed to be manifestations of meditation insights & macroscopic quantum correlations of individual & collective consciousness, with significant quantum-holographic psychosomatic-spiritual & creative-educational implications. In particular, they may represent guideline for deeper understanding of quantum-holographic framework for integrative medicine & transpersonal psychology, by imposing healing boundary conditions - based on macroscopic quantum acupuncture system & (individual & collective) consciousness, and methods & techniques to decrease quantum entropy & macroscopic quantum correlations of acupuncture system / individual consciousness & collective consciousness significantly - thus providing new impacts for development of integrative medicine & transpersonal psychology. In wider context, Tesla's whole research may provide an inspiration for reconsideration of global educational / informational / political goals – with reorientation towards holistic gentle actions for solutions of the 'global risk society' - thus helping future strategies to achieve and maintain a state of complete physical, mental and social well-being both on the near & large scales.

Keywords: Nikola Tesla, Hopfield-like neural-networks quantum-holographic framework, psychosomatics & spirituality, integrative medicine & transpersonal psychology, acupuncture system & consciousness, individual & collective consciousness, quantum entropy, macroscopic quantum correlations, free will.

Tesla's Inspired Holistic Ideas



(a) Symbolic representation of mentally controlled-directed increasing of macro-quantum correlations of interacting individual consciousness (S) & collective consciousness / environment (E) in transpersonally-entangling creative phases (left-hand side of image & formula above, with previous mental increase of focused weight contribution c_j & subsequent (practically non-stochastic) classically-reduced selection of this dominant weight contribution c_j ; (b) Symbolic representation of mentally controlled-systemic decreasing of macro-quantum correlations of interacting individual consciousness (S) & collective consciousness / environment (E) in transpersonally-disentangling spiritual phases (right-hand side of image & formula above), with previously systemic mental decreasing of almost all weight contributions c_i & subsequent (practically non-stochastic) classically-reduced selection of the remaining weight contribution c_j (related to mentally-embedded address on the founder of the corresponding mystical tradition).

OUTLINE II. THREE FRONT LINES OF PSYCHOSOMATIC (QUANTUM-HOLOGRAPHIC) INTEGRATIVE MEDICINE

(i) SPIRITUALITY & CIRCULAR (PSYCHO / ENERGY) THERAPIES FROM ALL RELEVANT META-POSITIONS

(ii) (QUANTUM) HOLISTIC MEDICINE & NON-CIRCULAR (PSYCHO / ENERGY) THERAPIES

(iii) SYMPTOMATIC CONVENTIONAL MEDICINE

OUTLINE II. Biophysical energy-informational research of **integrative medicine &** transpersonal psychology is of special importance due to widespread usage in developed countries - as contemporary investigations of stress-induced psychosomatic diseases suggest necessity of holistic methods (focusing on body's energy-informational system & consciousness), oriented to treating man as a whole, suggesting their macroscopic quantum origin – with significant global implications [1-4]. So it may be said that there are three front lines of psychosomatic (quantum-holographic) integrative medicine: (i) spirituality & circular (psycho / energy) therapies from all relevant meta-positions (with permanent removal of mutual quantum memory attractors (states) on the level of collective consciousness, due to energy-informational dis-entanglement of mental addresses of all persons involved in the problem); (ii) (quantum) holistic medicine & non-circular (psycho / energy) therapies (which temporarily remove memory attractors on the level of body's energy-informational system / individual consciousness & prevent or alleviate their somatization, as a result of negligence on the first front line); and (iii) symptomatic conventional medicine (which via immunology, pharmacology, biomedical diagnostics and surgery on somatic level

It should be particularly noted that the *necessary activities* in the second and third front lines, with *neglect of the first one*, would result in *further transfer* of *memory attractors* on the level of individual and collective consciousness in this and future generations, thus *accumulating quantum-holographic nonlocal loads* that cause then not only diseases but also interpersonal conflicts, wars and other sufferings.

prevents or alleviates consequences of carelessness on the first two front lines).

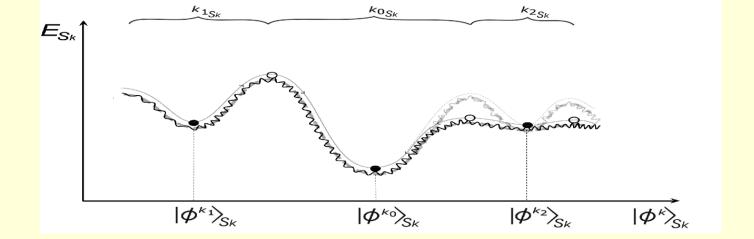


Figure 1. Schematic presentation of the adaptation of memory attractors in the energy-state ($E_{S_k}(\phi^k)$) hypersurface of the *quantum-holographic memory* of various hierarchical levels of biological *macroscopic open quantum* systems S_k (local cell's biomolecular protein-target, local acupuncture system-consciousness, or nonlocal out-of-body consciousness-collective consciousness) [4-7]:

$$G(r_2, t_2; r_1, t_1) = \sum_{i=1}^{P} \phi^{k_i}(r_2, t_2) \phi^{k_i^*}(r_1, t_1) = \sum_{i=1}^{P} A_{k_i}(r_2, t_2) A_{k_i^*}(r_1, t_1) e^{\frac{i}{\hbar} (\alpha_{k_i}(r_2, t_2) - \alpha_{k_i}(r_1, t_1))}$$

It should be pointed out that Nature presumably has chosen elegant biological room-temperature solution for quantum-holographic information processing, permanently fluctuating between quantum-coherent $|\phi^k(t)\rangle_{S_k}$ =

$$\sum_{i} c_{k_{i}}(t) \left| \phi^{k_{i}} \right\rangle_{S_{k}} \text{ and classically-reduced } \widehat{\rho}_{S_{k}}^{k}(t) = \sum_{i} \left| c_{k_{i}}(t) \right|^{2} \left| \phi^{k_{i}} \right\rangle_{S_{k}S_{k}} \left\langle \phi^{k_{i}} \right| \text{ states of the biological macroscopic}$$

open quantum system S_k , via non-stationary bioresonance interactions with out-of-body farther environment and through decoherence by bodily closer environment. Thus *quantum neural holography* combined with *quantum decoherence* might be very significant element of the *feedback bioinformatics*, from the level of cell – to the level of organism – and further to the level of collective consciousness, with *backward dynamic influence on the expression of genes*. This implies *necessity* of quantum-informational successive *bioresonant balansing* of all unwilling side memory attractors (like ϕ^{k_2} in the Figure), which would cause development of *psychosomatic diseases* on the individual level, and *interpersonal fights* in this and further generations on the collective level.

In particular, considering **psychosomatic state** in generally **mixed quantum state**, described by **density matrix**:

$$\widehat{\rho}_{S_{kv}}^{(k)} = \sum_{i} \left| c_{k_i} \right|^2 \left| \phi_{v}^{(k_i)} \right\rangle_{S_{kv}S_{kv}} \left\langle \phi_{v}^{(k_i)} \right| \equiv \sum_{i} p_{k_i} \left| \phi_{v}^{(k_i)} \right\rangle_{S_{kv}S_{kv}} \left\langle \phi_{v}^{(k_i)} \right|$$

von Neumann's quantum-mechanical entropy $S = -kTr(\widehat{\rho}_{S_{kv}}^{(k)} \ln \widehat{\rho}_{S_{kv}}^{(k)})$ reduces to Shannon's classical entropy: $S = -k\sum_{i} p_{k_i} \ln p_{k_i}$.

Then, entropy of pure-healthy state of psychosomatic system (described by single k_0 -th term in superposition, of probability $p_{k_0}=1$), would be $S_{k_0}=0$ (as pure quantum state $\widehat{\rho}_{S_{k_0}}^{(k_0)}$ provides maximal possible information about quantum psychosomatic system), while entropy of mixed-disordered state of psychosomatic system (described by full above superposition), would be $S_{\widehat{\rho}}>0$ (as mixed stochastic state $\widehat{\rho}_{S_{k_0}}^{(k)}$ provides uncomplete information about quantum psychosomatic system).

Thus, in this quantum-holographic Hopfield-like neural network framework, psychosomatic healthy state is the state of minimal entropy, while psychosomatic disordered state is the state of increased entropy. So, application of psychosomatic therapies decrease entropy (degradation) i.e. increase information (organization) of macroscopic quantum psychosomatic system.

According to our previous proposal, *transpersonal interactions* might be interpreted by *collapse-related* consciousness-channeled quantum-gravitational tunneling of operator's individual consciousness – mentally addressed on the target's content of the *collective* consciousness / 'environment' in operator's (short-lasting) *transitional states of consciousness* – thus *intentionally channeling state* of operator's individual consciousness, $|\Phi\rangle_s \rightarrow |\Phi_j\rangle_s$, and automatically influencing the complement collective consciousness / 'environment' output $|\Psi\rangle_E \rightarrow |\Psi_j\rangle_E$ in quantum-gravitationally-induced & consciousness-channeled collapse:

$$|\Phi\rangle_{S}|\Psi\rangle_{E} \to \sum_{i} c_{i} |\Phi_{i}\rangle_{S} |\Psi_{i}\rangle_{E} \xrightarrow{p_{j} = |c_{j}|^{2} \approx 1} |\Phi_{j}\rangle_{S} |\Psi_{j}\rangle_{E}$$

This relation is also description of **two-step decoherence process:** (1) quantum **entanglement of memory attractors** of interacting individual consciousness $|\Phi_i\rangle_s$ & collective consciousness $|\Psi_i\rangle_E$ (correlated via (consciousness-based) resonant recognition / interaction of associatively-related attractors of individual & collective consciousness), and (2) body-induced collapse with quasi-stochastic **mentally enhanced** $|\mathbf{c}_i| \approx \mathbf{1}$ contribution by focusing on corresponding j-th memory attractor in normal state of individual consciousness [with notification of 'gauge quantum field theory & quantum gravity correspondence (in string theory)' of any quantum entangled system (i.e. Einstein-Podolsky-Rosen correlated quantum pair) and corresponding connected miniature (non-traversable) 'wormhole' (i.e. quantum-gravitational Einstein-Rosen bridge); (its possible traversability in cosmological conditions has been discussed, while in transpersonal conditions it is phenomenologically widely used in healing practices.)].

- Note 1. In the context of body's energy-informatinally-based & consciousness-based approaches and techniques of quantum-informational medicine, their goal would be a bioresonant excitation of the disordered EM quantum memory state (attractor) (e.g. acupuncture palpatory-painful / psychologically traumatic) thus enabling that its initial memory attractor is bioresonantly excited (similar to annealing procedure in neural networks) becoming more shallower and wider on the account of deepening of the (energy-dominating) attractor of healthy state (e.g. acupuncture palpatory-painless / psychologically traumatic-free) which is then altogether quantum-holographically projected on the lower quantum-holographic cellular level, thus self-organizing normalized expression of genes.
- **Note 2.** However, when the above process is hindered by **transpersonally entangled blockages** in the EM field-related body's energy-informatinal system/ consciousness (as numerous laboratory tests are revealing the evidence of entangled minds i.e. extrasensory experiences in a quantum reality) then memory attractors of quantum-holographic network of the EM field-related **collective consciousness** should be removed as well (via prayer or circular (psycho/ energy) therapies from all relevant meta-positions), to **disentangle energy-informationally all relevant mental addresses** (with final goal to achieve permanent healing i.e. spiritual integration of personality).
- **Note 3.** Hence, all body's energy-informatinally-based & consciousness-based holistic procedures might be treated as **quantum-informational therapies**, by imposing **new healing boundary conditions in the EM quantum energy-state space of body's energy-informational system / (individual & collective) consciousness** (cf. Figure 1).

- **Note 4.** In this quantum-informational context, it should be also noted that **a number** of macroscopic quantum phenomena in biomolecules & open biological cells could be biophysically accounted within our quantum-holographic framework:
- (i) biomolecular chain folding as a subtle quantum-fluctuating interplay (between energy eigenstates & conformation eigenstates of the biomolecule governed by quantum-chemical & quantum decoherence laws - naturally resolving the long standing problem of the polymer folding, which was considered by Levinthal as (semi) classically intractable!); (ii) system of all identical biomolecules as spatial quantum ensemble of identical biomolecular processors (non-interacting & dynamically non-coupled – providing ergodic-equivalent spatially distributed quantum solution to single biomolecular chain folding); (iii) density of conformational states of all identical biomolecules as Hopfield-like quantumholographic neural network (in the form of non-morphological / abstract "formal neurons" massively inter-connected by "formal connections"); (iv) successive functionally interconnected biochemical reactions as Haken's multi-level synergetic neural network (composed of successive Hopfield-like quantumholographic neural networks' layers - quantum-holographically / fractally mutually coupled via their "memory attractors", within the occupational bases of conformational states of the corresponding enzymes); (v) memory attractors of water as Hopfield-like quantum-holographic neural network (as mediators in coupling quantum-informational intra-cellular & extra-cellular biochemical reactions, implying possible quantum-informational basis of homeopathy & some intriguing field-mediated self-organizing genetic experiments).

SYMPOSIUM OF QUANTUM-INFORMATIONAL MEDICINE QIM 2011: ACUPUNCTURE-BASED & CONSCIOUSNESS-BASED HOLISTIC APPROACHES & TECHNIQUES

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- Prayer Ho'oponopono Transpersonal Psychotherapies Family Constellations ●
- Meridian Therapies
 ◆ Qigong
 ◆ Reconnection
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 ◆ Shamanistic Traditions

Conclusion

Tesla's introspective analyses may provide a clue for deeper understanding of quantum-holographic framework for Integrative medicine & Transpersonal psychology by imposing healing boundary conditions – based on methods & techniques for decrease of quantum entropy & macroscopic quantum correlations of acupuncture system / individual consciousness & collective consciousness.

In wider context, Tesla's whole research may also provide an inspiration for re-consideration of global educational / informational / political goals — with re-orientation towards holistic gentle actions for solutions of 'global risk society' — thus helping future strategies to achieve and maintain a state of complete physical, mental & social well-being both on near & large scales.

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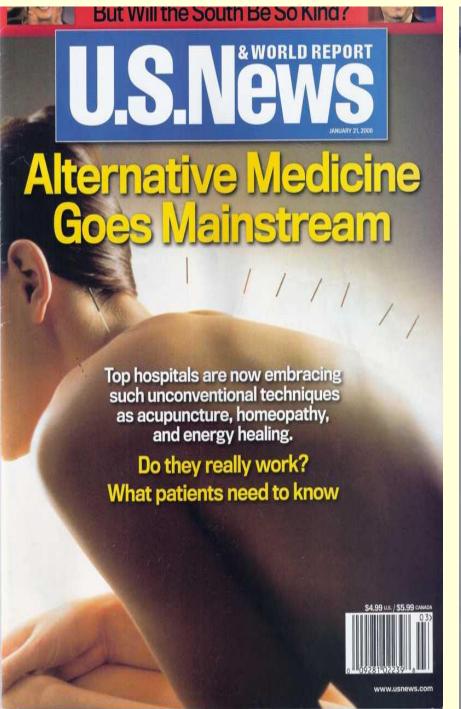
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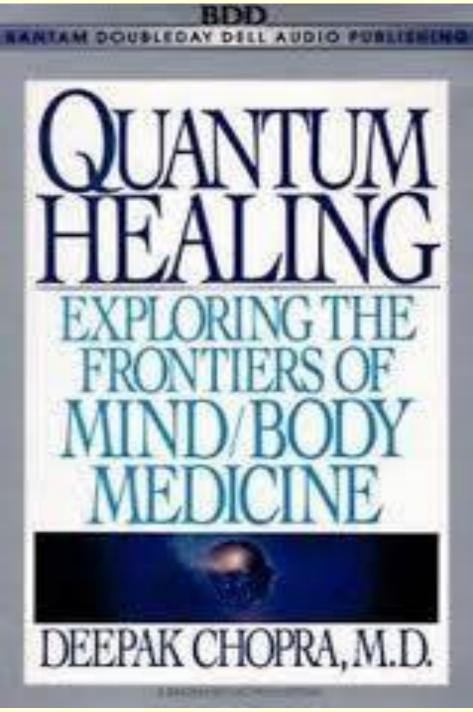
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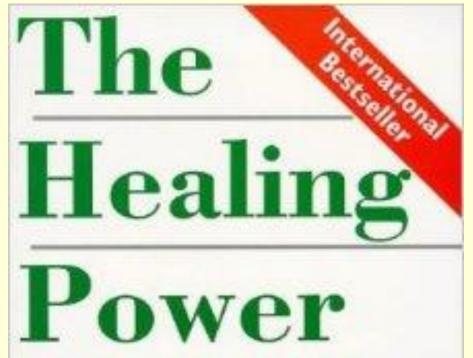
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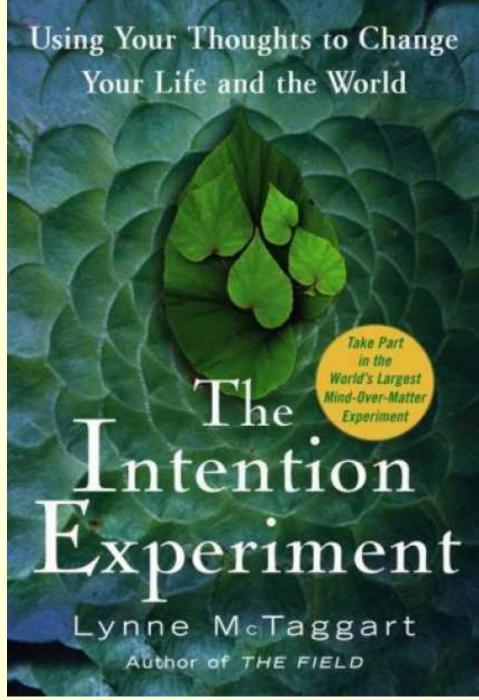




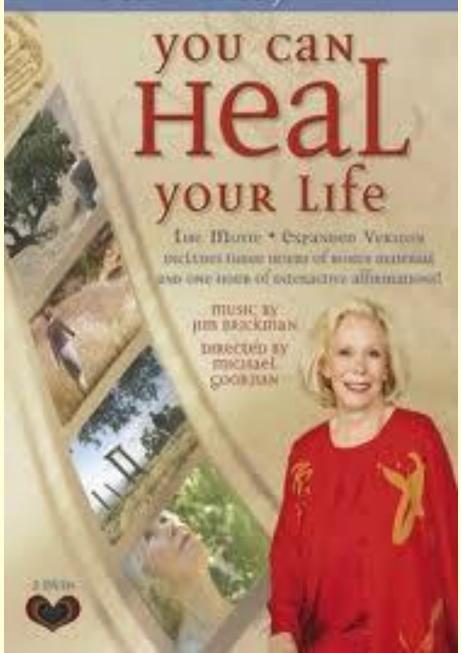
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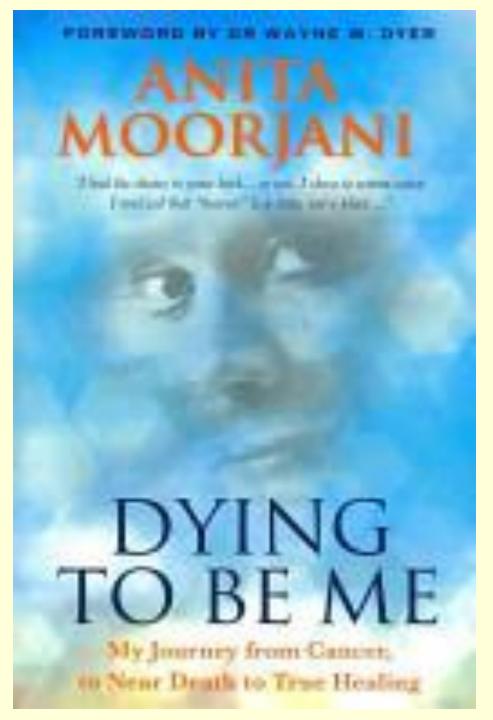
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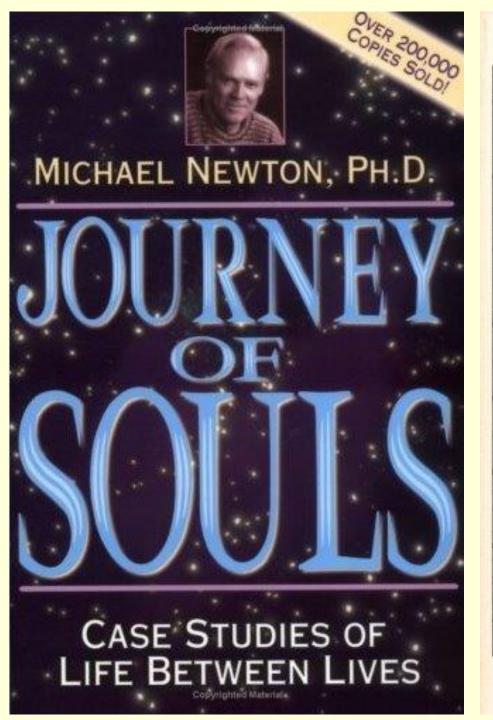
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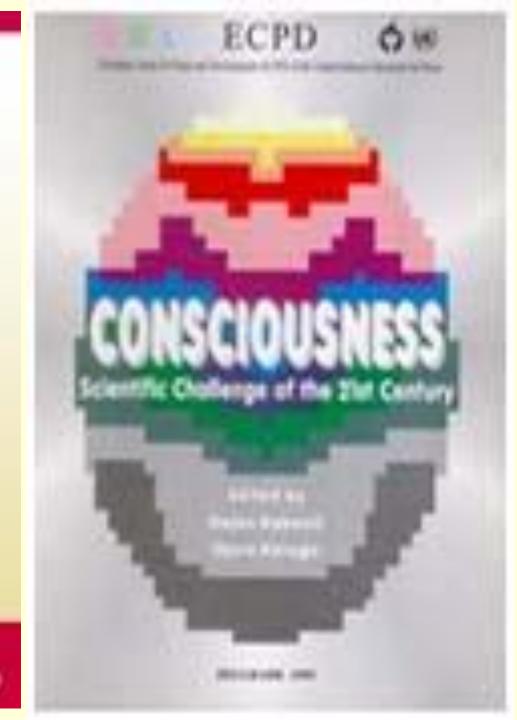
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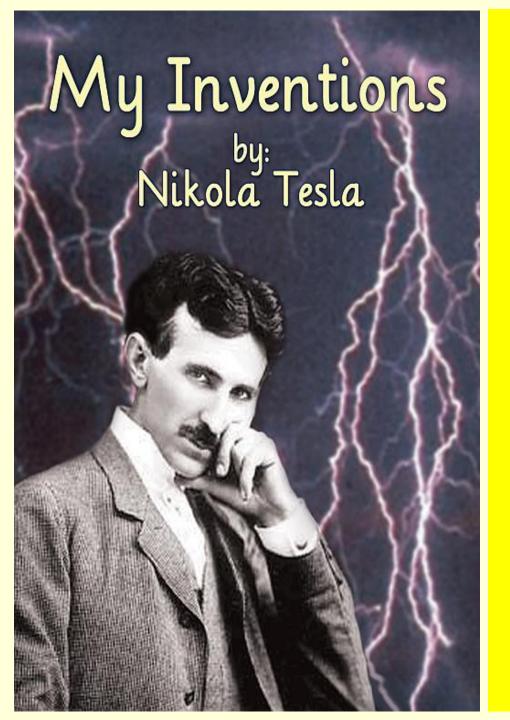
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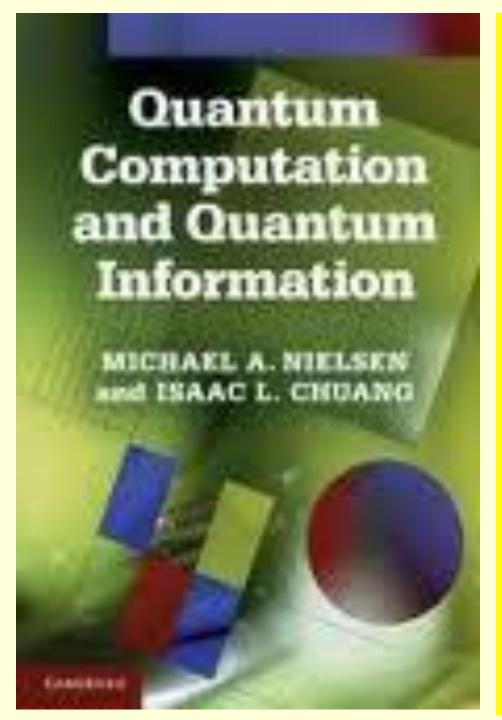
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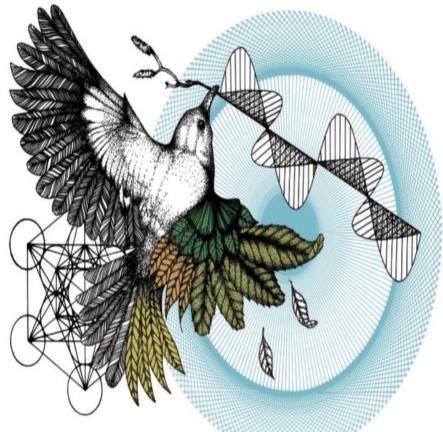
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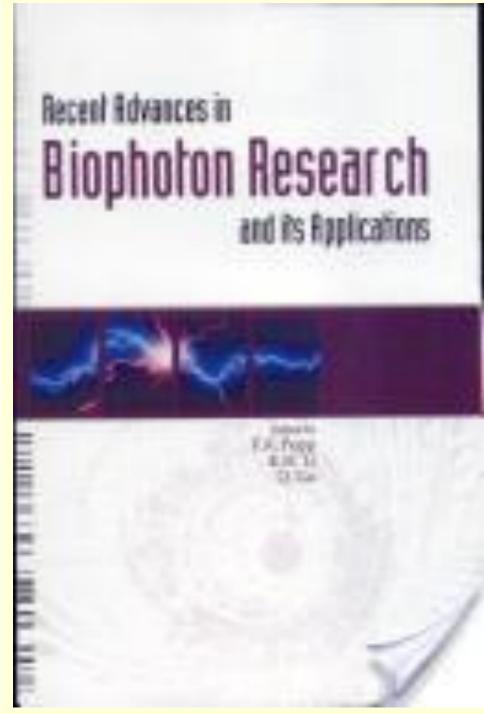
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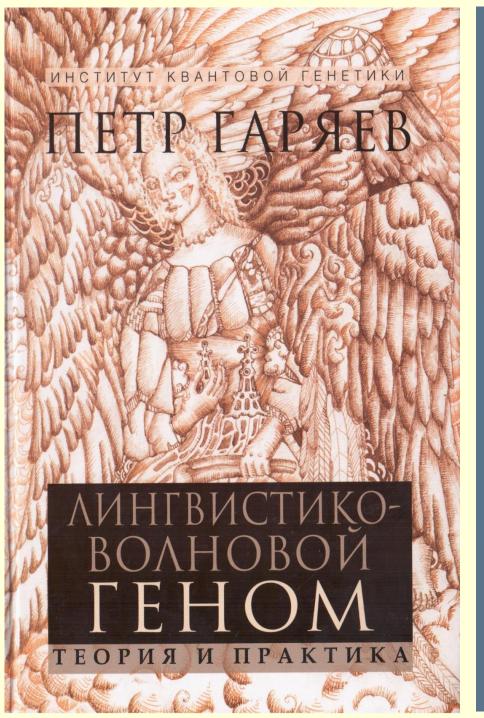
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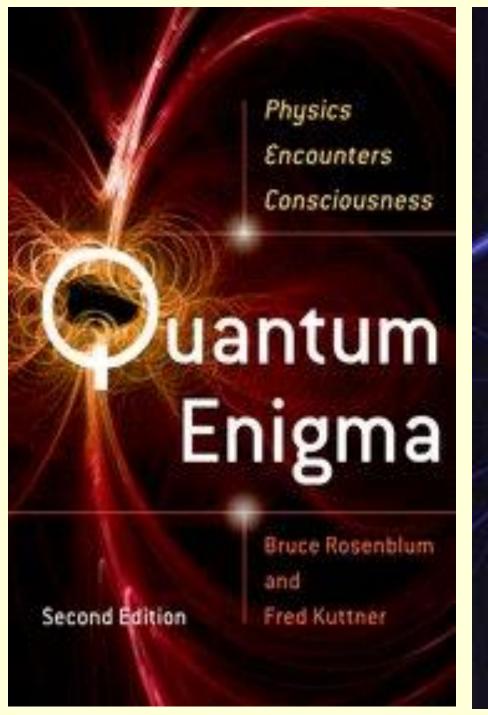
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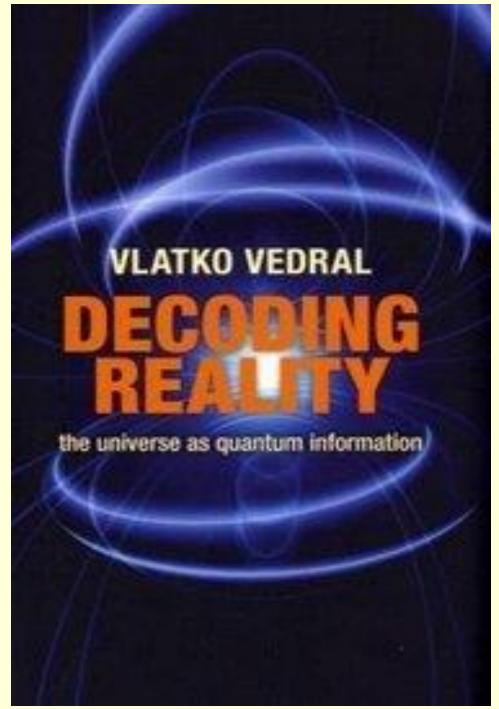
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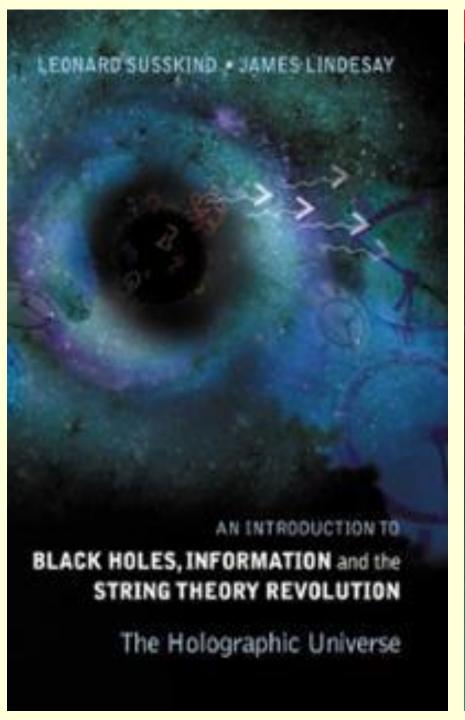


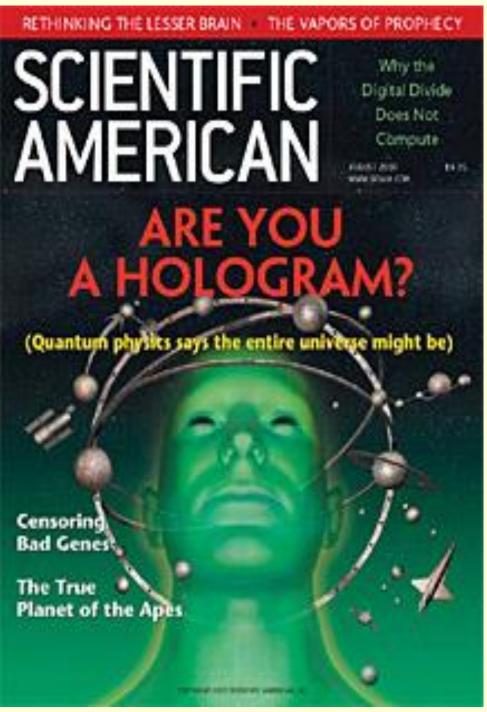




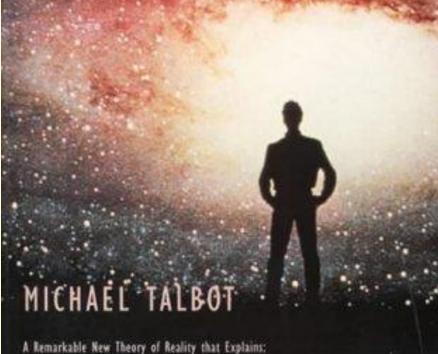






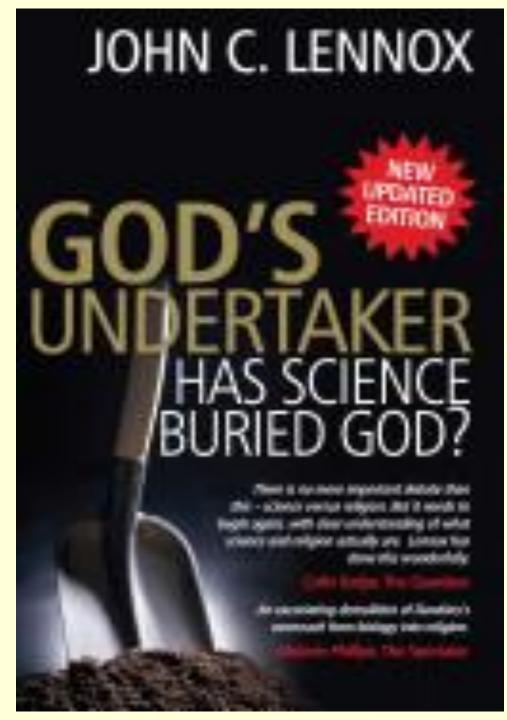


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the Latest Frontiers of Physics
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Dejan Raković

INTEGRATIVE BIOPHYSICS, QUANTUM MEDICINE AND QUANTUM-HOLOGRAPHIC INFORMATICS PSYCHOSOMATIC-COGNITIVE IMPLICATIONS

Author is dealing with the research and educational work in the fields of integrative biophysics, quantum medicine and quantum-holographic informatics for many years, and as a connoisseur of classical and quantum physics explains biophysical phenomena and provide arguments for the application of integrative biophysical diagnostic and therapeutic methods and techniques in medicine.

Bearing in mind that contemporary research indicates the increasing presence of psychosomatic factors in the origin of many diseases, then the inclusion of psychological phenomena (consciousness, stress, etc.) oriented to the treatment of man as a whole and not of diseases as symptoms, represents a shift in the diagnosis and treatment of human health, in respect to the classical medicine. The book also makes a shift in the field of traditional medicine, as it provides a satisfactory explanation for the application of some traditional methods and techniques...

The monograph is of the multidisciplinary character and is primarily dedicated to open-minded physicians who practice classical and traditional medicine, to specialists and students of the postgraduate studies in biophysics and biomedical engineering, as well as to all those interested in the application of new scientific methods and techniques in medicine...

- Djuro Koruga

According to the structure and contents, the book can be equally classified into a higher educational textbook, but also into a very advanced and specific (by issue and research approach) multidisciplinary (physics, biology, medicine, philosophy) scientific monograph.

The book offers a broader and deeper information about hot development of the biophysics of consciousness at the end of the 20th century and the beginning of the 21st century, which is not only of fundamental importance, but allows a wide implementation, from the genetic to biomedical engineering. In order to understand physics of living nature the whole tool of modern theoretical physics is used, in all levels: from molecular, via cellular and overcellular, to bodily level, including the biosphere as a whole. Therefore, to help readers the appendices on quantum mechanics, quantum chemistry, and quantum informatics are added.

Generally speaking, before the readers is a unique book-monograph...



Jovan Šetrajčić

Dejan Raković

INTEGRATIVE BIOPHYSICS, QUANTUM MEDICINE AND QUANTUM-HOLOGRAPHIC INFORMATICS: PSYCHOSOMATIC-COGNITIVE IMPLICATIONS

IASC & IEFPG Belgrade 2009

QUANTUM-INFORMATIONAL BIOMEDICINE & QUANTUM INFORMATICS: RELATIONSHIPS & PERSPECTIVES

QUANTUM ENTANGLEMENT, QUANTUM DECOHERENCE, QUANTUM TELEPORTATION, QUANTUM CRIPTOGRAPHY, QUANTUM COMPUTING (PHYSICAL BASICS & APPLICATIONS IN COMPUTING & TELECOMMUNICATIONS; SHARPENING BASICS OF QUANTUM MECHANICS: UNIVERSALITY OF QUANTUM MECHANICS, BORDERS OF QUANTUM LIMIT, SPATIO-TEMPORAL QUANTUM ENTANGLEMENT,

QUANTUM-HOLOGRAPHIC NEURAL NETWORKS

PHYSICAL NATURE OF QUANTUM COLLAPSE)

(NON-LOCAL NATURE OF ACUPUNCTURE SYSTEM & PSYCHOSOMATICS;
NON-LOCAL NATURE OF CONSCIOUSNESS & CREATIVITY AND SPIRITUALITY;
TRANSPERSONAL INTERACTIONS & SPATIO-TEMPORAL QUANTUM ENTANGLEMENT IN
BIOSYSTEMS WITH QUANTUM MEMORY:
QUANTUM BIOLOGY, QUANTUM PSYCHOLOGY,
HOLOGRAPHIC UNIVERSE)

QUANTUM-INFORMATIONAL BIOMEDICINE

(DIAGNOSTIC & THERAPEUTIC METHODS OF QUANTUM-INFORMATIONAL MEDICINE; THREE FRONT LINES OF INTEGRATIVE PSYCHOSOMATIC MEDICINE: COLLECTIVE CONSCIOUSNESS, INDIVIDUAL CONSCIOUSNESS & ACUPUNCTURE SYSTEM, BODY)