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Vol. 70, No. 1, January-February 1982

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Vol. 71, No. 3, May-June 1983

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With the challenges emerging from the analysis and interpretation of the human genome, and the specific issues pertinent ... A landmark clinical review of the field in 1959 organized by the CIBA ...

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With the challenges emerging from the analysis and interpretation of the human genome, and the specific issues pertinent ... A landmark clinical review of the field in 1959 organized by the CIBA ...

2775 references to research projects being conducted in the United States and elsewhere. Entries arranged under 11 topics, e.g., Cancer therapy, Supportive care of cancer patients, and Rehabilitation. Entries include title, researcher, address, contract number, summary, and supporting agency. Indexes by subjects, investigators, contractors, supporting agencies, and contractor numbers.

Recent advances in the neuroimaging field areas allow us to visualize the aggregate of neural connections at the macroscopic level within the brain, the so-called □connectome□. In order to promote the development of the neurophysiological investigation of connectome of brain oscillations, this eBook aims at bringing together contributions from researchers in basic and clinical neuroscience using EEG and MEG connectome analysis. The most important focal point will be to address the functional roles of connectome of brain oscillations in contributing to understandings of higher cognitive processes in normal subjects and pathophysiology of psychiatric diseases. This Research Topic presented novel methodologies and various applications of neurophysiological connectome analysis. As a result, these papers were cited more than 120 times in these four years in total and threw light and impact on new directions for investigating the connectome of human brain.

Mathias Frisch provides the first sustained philosophical discussion of conceptual problems in classical particle-field theories. Part of the book focuses on the problem of a satisfactory equation of motion for charged particles interacting with electromagnetic fields. As Frisch shows, the standard equation of motion results in a mathematically inconsistent theory, yet there is no fully consistent and conceptually unproblematic alternative theory. Frisch describes in detail how the search for a fundamental equation of motion is partly driven by pragmatic considerations (like simplicity and mathematical tractability) that can override the aim for full consistency. The book also offers a comprehensive review and criticism of both the physical and philosophical literature on the temporal asymmetry exhibited by electromagnetic radiation fields, including Einstein's discussion of the asymmetry and Wheeler and Feynman's influential absorber theory of radiation. Frisch argues that attempts to derive the asymmetry from thermodynamic or cosmological considerations fail and proposes that we should understand the asymmetry as due to a fundamental causal constraint. The book's overarching philosophical thesis is that standard philosophical accounts that strictly identify scientific theories with a mathematical formalism and a mapping function specifying the theory's ontology are inadequate, since they permit neither inconsistent yet genuinely successful theories nor thick causal notions to be part of fundamental physics.

The six-volume set LNCS 8579-8584 constitutes the refereed proceedings of the 14th International Conference on Computational Science

and Its Applications, ICCSA 2014, held in Guimarães, Portugal, in June/July 2014. The 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167. The 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security.

Contemporary Issues in Behavior Therapy presents innovative approaches to various societal problems worldwide. Contributors explore issues from diverse areas such as behavioral medicine, education, developmental disability, poverty, problematic behavior, and developmental considerations (ie., early family experiences and aging process). The volume stimulates ideas for research, prevention, and treatment, as well as for managing other modern ills including homelessness, crime, and aggression.

An engaging writing style and a strong focus on the physics make this graduate-level textbook a must-have for electromagnetism students.

Electromagnetic Radiation is a graduate level book on classical electrodynamics with a strong emphasis on radiation. This book is meant to quickly and efficiently introduce students to the electromagnetic radiation science essential to a practicing physicist. While a major focus is on light and its interactions, topics in radio frequency radiation, x-rays, and beyond are also treated. Special emphasis is placed on applications, with many exercises and problems. The format of the book is designed to convey the basic concepts in a mathematically rigorous manner, but with detailed derivations routinely relegated to the accompanying side notes or end of chapter "Discussions". The book is composed of four parts: Part I is a review of basic E&M (electricity and magnetism), and presents a concise review of topics covered in the subject. Part II addresses the origins of radiation in terms of time variations of charge and current densities within the source, and presents Jefimenko's field equations as derived from retarded potentials. Part III introduces special relativity and its deep connection to Maxwell's equations, together with an introduction to relativistic field theory, as well as the relativistic treatment of radiation from an arbitrarily accelerating charge. A highlight of this part is a chapter on the still partially unresolved problem of radiation reaction on an accelerating charge. Part IV treats the practical problems of electromagnetic radiation interacting with matter, with chapters on energy transport, scattering, diffraction and finally an illuminating, application-oriented treatment of fields in confined environments.