

## Fission And Fusion Answers Concept Physics

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This book brings together the debate concerning personal identity (in metaphysics) and central topics in biomedical ethics (conception of birth and death, autonomy, living wills and paternalism). Based on a metaphysical account of personal identity in the sense of persistence and conditions for human beings, conceptions for beginning of life, and death are developed. Based on a biographical account of personality, normative questions concerning autonomy, euthanasia, living wills and medical paternalism are dealt with. By these means the book shows that (personal identity) has different meanings which have to be distinguished so that human persistence and personality can be used to deal with central questions in biomedical ethics.

Largely in anticipation of a possible nuclear renaissance, there has been an enthusiastic renewal of interest in the fusion-fission hybrid concept, driven primarily by some members of the fusion community. A fusion-fission hybrid consists of a neutron-producing fusion core surrounded by a fission blanket. Hybrids are of interest because of their potential to address the main long-term sustainability issues related to nuclear power: fuel supply, energy production, and waste management. As a result of this renewed interest, the U.S. Department of Energy (DOE), with the participation of the Office of Fusion Energy Sciences (OFES), Office of Nuclear Energy (NE), and National Nuclear Security Administration (NNSA), organized a three-day workshop in Gaithersburg, Maryland, from September 30 through October 2, 2009. Participants identified several goals. At the highest level, it was recognized that DOE does not currently support any R & D in the area of fusion-fission hybrids. The question to be addressed was whether or not hybrids offer sufficient promise to motivate DOE to initiate an R & D program in this area. At the next level, the workshop participants were asked to define the research needs and resources required to move the fusion-fission concept forward. The answer to the high-level question was given in two ways. On the one hand, when viewed as a standalone concept, the fusion-fission hybrid does indeed offer the promise of being able to address the sustainability issues associated with conventional nuclear power. On the other hand, when participants were asked whether these hybrid solutions are potentially more attractive than contemplated pure fission solutions (that is, fast burners and fast breeders), there was general consensus that this question could not be quantitatively answered based on the known technical information. Pure fission solutions are based largely on existing both fusion and nuclear technology, thereby prohibiting a fair side-by-side comparison. Another important issue addressed at the conference was the time scale on which long-term sustainability issues must be solved. There was a wide diversity of opinion and no consensus was possible. One group, primarily composed of members of the fission community, argued that the present strategies with respect to waste management (on-site storage) and fuel supply (from natural uranium) would suffice for at least 50 years, with the main short-term problem being the economics of light water reactors (LWRs). Many from the fusion community believed that the problems, particularly waste management, were of a more urgent nature and that we needed to address them sooner rather than later. There was rigorous debate on all the issues before, during, and after the workshop. Based on this debate, the workshop participants developed a set of high-level Findings and Research Needs and a companion set of Technical Findings and Research Needs. In the context of the Executive Summary it is sufficient to focus on the high-level findings which are summarized.

Research and theory on self-esteem have flourished in recent years. This resurgence has produced multiple perspectives on fundamental issues surrounding the nature of self-esteem and its role in psychological functioning and interpersonal processes. Self-Esteem Issues and Answers brings together these various perspectives in a unique format. The book is divided into five sections. Section I focuses on core issues pertaining to the conceptualization and assessment of self-esteem, and when self-esteem is optimal. Section II concentrates on the determinants, development, and modifiability of self-esteem. Section III examines the evolutionary significance of self-esteem and its role in psychological processes and therapeutic settings. Section IV explores the social, relational, and cultural significance of self-esteem. Finally, Section V considers future directions for self-esteem researchers, practitioners, parents and teachers. This volume offers a wealth of perspectives from prominent researchers from different areas of psychology. Each expert contributor was asked to focus his or her chapter on a central self-esteem issue. Three or four experts addressed each question. The result is that Self-Esteem Issues and Answers provides a comprehensive sourcebook of current perspectives on a wide range of central self-esteem issues.

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Mapped to the latest Cambridge A Level Physics syllabus (9702), this comprehensive resource supports students with its stretching, problem solving approach. It helps foster long-term performance in science, as well as building their confidence for the Cambridge examinations. The practical approach helps to make science meaningful, so it is ideal for students planning to study science at university. Includes support for the new Key Concepts -developing Cambridge students' subject knowledge and encouraging them to make links between topics.

There is no question: We are all persons. But what exactly are persons? Are we immaterial souls or Cartesian Egos which only contingently have bodies? Or are persons nothing over and above their bodies? Are they essentially or most fundamentally animals, evolved beings of a certain sort? Or are we something other or more than animals, namely constituted beings with a certain capacity that distinguishes persons from everything else? What is necessary, and what is sufficient, for an entity to be classified or (re-)identified as a person? What's the value of an analysis of such (biological or psychological) conditions? What does it contribute to our understanding of ourselves as free agents or as beings wanting to live their individual live? The essays collected in this anthology try to answer these questions. They are primarily concerned with the metaphysics of persons and the criteria of personal identity, but also touch on problems of the theory of action and of practical philosophy.

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