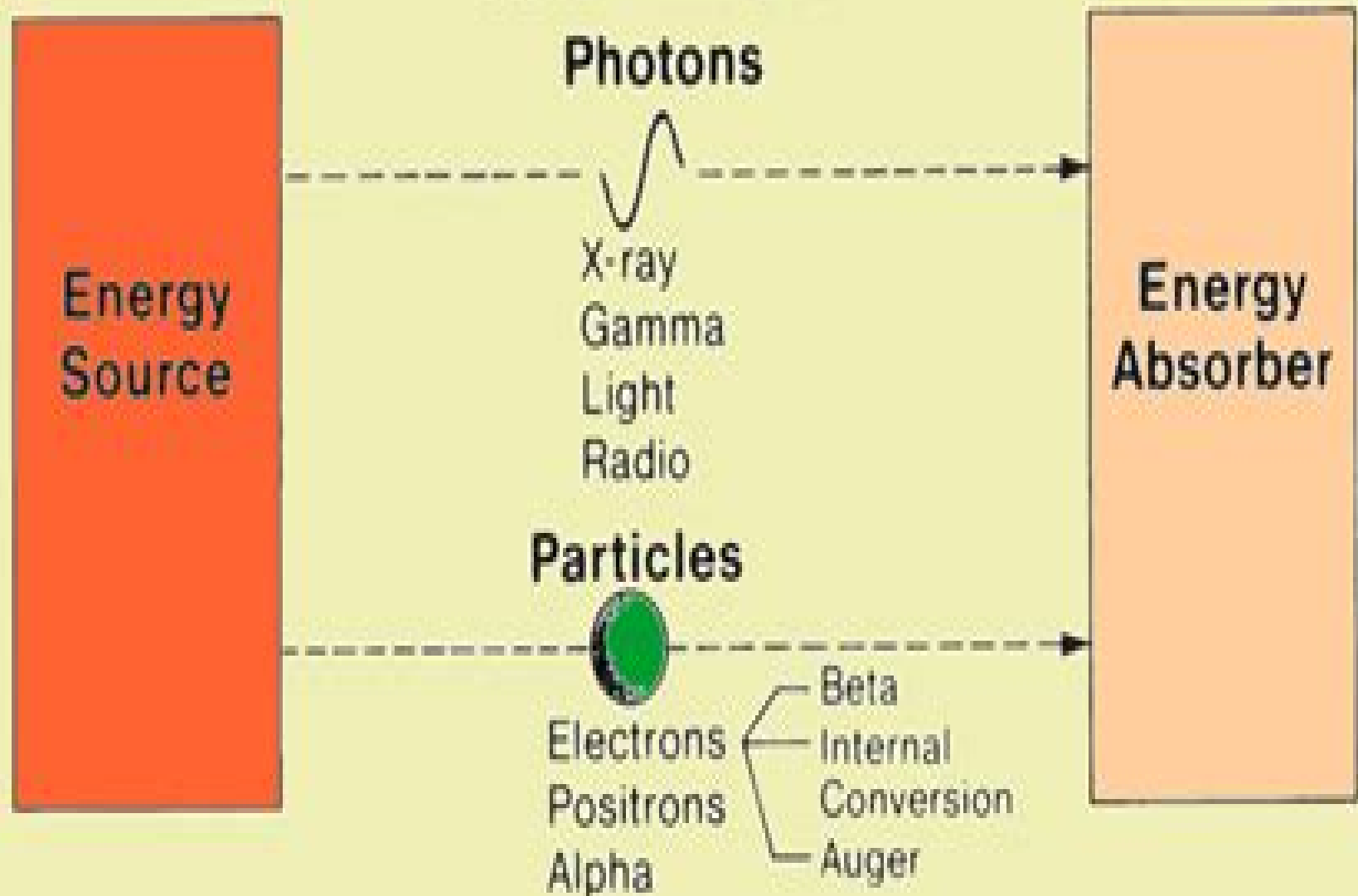


RADIATION



Radiation Energy Conversion In Space

Kenneth W. Billman



Radiation Energy Conversion In Space:

Radiation Energy Conversion in space ,1978 **RADIATION ENERGY CONVERSION IN SPACE- SELECTED TECHNICAL PAPERS PRESENTED- 3RD NASA CONFERENCE- RADIATION ENERGY CONVERSION.** , **Energy Conversion for Space Power** Nathan Snyder,2012-12-02 Progress in Astronautics and Rocketry Volume 3 Energy Conversion for Space Power focuses on the use of dependable electric power sources on space vehicles Composed of various literature the book first discusses the physics of thermoelectricity thermoelectric generator of materials the use of semiconductors in thermoelectric conversion and the use of high temperature thermoelectric materials for power generation The text also presents experiments on the effect of irradiation on thermoelectric materials thermoelectric elements in space power systems and thermionics The book then describes photovoltaic effect and conversion of solar energy trends in silicon solar cell technology the use of silicon solar cells in energy conversion and how radiation affects solar cell power systems The text notes the specifications of batteries if used in communications satellites the use of positive displacement engines and turbines on cryogenic power systems and the characteristics of magnetohydrodynamic MHD generators in space power conversion The book is a good source of information for readers and scientists wanting to explore the potential of energy conversion in space power technology **Radiation Energy Conversion in Space. NASA Conference // National Aeronautics and Space Administration ; 3** ,1978 *Radiation energy conversion in space* Kenneth W. Billman,1978 Solar Energy Update ,1982 **Energy: a Continuing Bibliography with Indexes** ,1975 Space Nuclear Power, Conversion, and Energy Storage for the Nineties and Beyond United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Research and Production,1986 *NASA Technical Paper* ,1986 **A NASA High-power Space-based Laser Research and Applications Program** ,1983 **Technology for Large Space Systems** ,1987 **Radiation Energy Conversion in Space. Technical Papers Prepared for the 3. NASA Conference on Radiation Energy Conservation, Moffett Field, Calif. 1978** ,1978 **Radiation Energy Conversion in Space** Kenneth W. Billman,1978 Solar power satellites. , During energy crisis at the end of the Sixties a new idea to exploit solar energy arose Solar Power Satellites These satellites need a huge surface to collect enough solar energy to be beamed on Earth by means of a microwave power transfer system Different concepts appeared during last forty years and a lot of studies addressing the SPS economical feasibility have been published In this work a particular concept is considered the JAXA Reference Concept 2003 It is a formation flying SPS composed by two reflectors and a central array panel The objective of the work is to study two major problems this concept presents Due to its dimensions the satellite orbit will suffer from important orbital perturbations and since formation flying satellites need a tight orbit control the first task is to derive an analytical approximation to perform relative perturbed orbit propagation for formation flying satellite This objective is pursued starting from a H Schaub s formulation in which formation flying satellites unperturbed orbit is described by means

of an approximated relation function of orbital element differences This formulation is merged with another approach developed in a previous work which gives analytically orbital parameters variation when a perturbation acts on the spacecraft The result is a very interesting algorithm able to perform the assigned task with a relative error lower than 3% over one simulated orbit The second objective concerns structural control It is not possible to consider these huge satellites as rigid bodies first natural frequencies will be certainly excited during operations So that the second task is the study of actuator placement optimization for flexible satellites very useful for tight pointing requirements A FEM model is developed modeling the SPS as a frame of beams and a global controllability index is obtained combining modal controllability and component cost analysis The maximization of this parameter

Life at the Center of the Energy Crisis George Hunter Miley, 2013 Life at the Center of the Energy Crisis A Technologist's Search for a Black Swan describes the story of the author's work and struggles in the field of energy research The author's experience in the field spans from work with Admiral Rickover and the Nuclear Navy to research with NASA designing propulsion for spacecraft to travel to Mars The book provides insights into the differences between nuclear research done during the Cold War by the two superpowers and offers a commentary on the flaws in each system with hope for change in the future The book also provides a look into the development of the nuclear engineering program at the University of Illinois from the author's years as a professor and an administrator

Energy, 1975 **Laser Technology--development and Applications** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 1980 **Solar Energy** United States. Energy Research and Development Administration. Technical Information Center, 1976 U.S. Government Research Reports, 1964 **Applied Mechanics Reviews**, 1982

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