



Solar Power From Satellites

R Barnett



Solar Power From Satellites:

Solar Power from Satellites Committee on Aeronautical and Space Sciences, Committee on Aeronautical and Space Sciences, United States Senate, 2001-12 A look at ways to collect solar power in space with satellites and beam that power down to Earth to supplement our other sources of electricity In addition this is a look at novel ways to say the least to construct those satellites The witnesses at these Senate hearings envision a time when space will be the scene of bustling activity They foresee construction of gigantic facilities that will provide the world with energy which is an essential and increasingly costly part of our industrial society 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 Solar Power Satellites Peter E. Glaser, Frank P. Davidson, Katinka I. Csigi, 1998 Discusses technologies involved in the development of a solar power satellite network as well as economic and societal issues relevant to the development of solar power satellites both as an alternative energy supply and as a stimulus for the exploration and use of space Fifty three contributors cover such topics as wireless power transmission *Solar Power from Satellites* United States. Congress. Senate. Committee on Aeronautical and Space Sciences. Subcommittee on Aerospace Technology and National Needs, 1976 **Solar Power Satellites** , 1981 Solar Power Satellites Don M. Flornoy, 2011-12-02 Communication satellites are a 144 billion industry Is there any space based industry that could possibly beat that market Solar Power Satellites shows why and how the space satellite industry will soon

begin expanding its market from relaying signals to Earth to generating energy in space and delivering it to the ground as electricity In all industrialized nations energy demand is growing exponentially In the developing world the need for energy is as basic as food and water The Sun s energy is available everywhere and it is non polluting As business plans demonstrate its technical feasibility commercial potential and environmental acceptability every country on Earth will look to space for the power it needs

Solar Power Satellites Peter Edward Glaser, Arthur D. Little, Inc, American Association for the Advancement of Science Macro-Engineering Projects, 1978

Microwave Power Transmission as a Future Feasibility of Solar Power Satellite Amit Sachan, Preeti Sachan, 2013-04-18 Research Paper postgraduate from the year 2013 in the subject Energy Sciences language English abstract The search for a new safe and stable renewable energy source led to the idea of building a power station in space which transmits electricity to Earth The concept of Solar Power Satellites SPS was invented by Glaser in 1968 SPS converts solar energy into microwaves and transmit it to a receiving antenna on Earth for conversion to electric power The key technology needed to enable the future feasibility of SPS is Microwave Power Transmission SPS would be a massive structure with an area of about 56 sq and would weigh about 30 000 to 50 000 metric ton Estimated cost is about 74 billion and would take about 30 years for its construction In order to reduce the projected cost of a SPS suggestions are made to employ extra terrestrial resources for its construction This reduces the transportation requirements of such a massive structure However the realization of SPS concept holds great promises for solving energy crisis

Solar Power Satellites , 1981 Laying the Foundation for Space Solar Power National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Committee for the Assessment of NASA's Space Solar Power Investment Strategy, 2001-11-30 In March 2000 NASA s Office of Space Flight asked the Aeronautics and Space Engineering Board of the National Research Council to perform an independent assessment of the space solar power program s technology investment strategy to determine its technical soundness and its contribution to the roadmap that NASA has developed for this program The program s investment strategy was to be evaluated in the context of its likely effectiveness in meeting the program s technical and economic objectives

The Solar Power Satellite Concept Christopher C. Kraft, 1979 **Solar Power from Satellites** , 1976 **Solar Power Satellites** , 1981 *The Final Proceedings of the Solar Power Satellite Program Review* Solar Power Satellite Program Review, 1980 *Energy* , 1982

The Environmental Element in Space Law , 2008 While decades of space ventures have led to significant technological advances space activities have also brought increasing environmental problems This book examines the current international legal regimes in space law and environmental law in order to ascertain their applicability and efficacy in addressing environmental threats in the space sector The research suggests mechanisms which could improve environmental protection in the sector and strengthen the environmental element in space law These mechanisms include a variety of norm setting strategies used in international environmental management Special attention is drawn to the potential of environmental

impact assessment in the space sector and to dispute resolution procedures Like other areas of human activities the space sector should accommodate both economic interests and environmental protection in line with the principle of sustainable development **Solar Energy Update** ,1982 **Energy: a Continuing Bibliography with Indexes** ,1981 **Satellite Power Systems** Niels E. Jensen,2003 **The Case for Space Solar Power** John Mankins,2013 This book makes the case for Space Solar Power recounting the history of this fascinating concept and summarizing the many different ways in which it might be accomplished The book describes in detail a highly promising concept SPS ALPHA Solar Power Satellite by means of Arbitrarily Large Phased Array and presents a business case comprising applications in space and markets on Earth The book explains how it is possible to begin now with technologies that are already at hand while developing the more advanced technologies that will be needed to deliver power economically to markets on Earth The Case for Space Solar Power concludes by laying out a path forward that is both achievable and affordable within a dozen years or less the first multi megawatt pilot plant could be in operation Getting started could cost less than 10 million over the first 2 years less than 100 million over the next half dozen years Given that space solar power would transform our future in space and might provide a new source of virtually limitless and sustainable energy to markets across the world the book poses the question Why wouldn't we pursue space solar power

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