



# Solar Power Satellite

**James E. Dudenhoefer**



## **Solar Power Satellite:**

**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

**The Solar Power Satellite Concept** Christopher C. Kraft, 1979 *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** Don M. Flournoy,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 from Satellites** Committee on Aeronautical and Space Sciences,Committee on Aeronautical and Space Scie,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 **Satellite de Puissance Solaire (The Solar Power Satellite).** Paul Francois Combes,OFFICE NATIONAL D'EUDES ET DE RECHERCHES AEROSPATIALES TOULOUSE (France) DERTS.,1982

**Solar Power from Satellites** United States. Congress. Senate. Committee on Aeronautical and Space Sciences. Subcommittee on Aerospace Technology and National Needs,1976 **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 Final Proceedings of the Solar Power Satellite Program Review Solar Power Satellite Program Review,1980

**Solar Power Satellites** ,1981 **Space Solar Power Satellite Technology Development at the Glenn Research Center** James E. Dudenhofer,2000 Space-based Solar Power for Instantaneously Dispatchable Renewable Power on Earth Jody Emlyn Muelaner,2025-04-28 Recent advances are reducing the cost of space launch high specific power solar cells and the production of satellite systems Modular architectures with no moving parts and distributed power systems would minimize assembly and maintenance costs Together this may enable space based solar power to provide decarbonized dispatchable power at a lower cost than equivalent technologies such as nuclear power stations Space based Solar Power for Instantaneously Dispatchable Renewable Power on Earth discusses the advances in emerging technologies like thin film solar

cells reusable launch vehicles and mass produced modular satellite systems that would make economic space power feasible Click here to access the full SAE EDGETM Research Report portfolio ISBN 9781468609370 ISBN 9781468609387 <https://doi.org/10.4271/EPR2025005> Solar Power Satellite U. S. House of Representatives,2004-10-01 In the quest for new and inexhaustible sources of energy solar energy has become a promising contender However several factors prevent solar energy from falling freely into the Earth s surface leading to the concept of collecting solar energy in space and beaming the energy to receiving units on the ground Studies to date have not identified any barriers with regard to technical feasibility and discussions with a number of respected scientists were told there are no scientific breakthroughs required Yet solar power satellites do represent very large engineering endeavor There are serious technical environmental economic and other issues which require technology verification for resolution These 1979 Congressional hearings presented a wealth of information from technical societies cognizant Federal agencies environmental groups and the originator of the concept

*The Case for Space Solar Power* John Mankins,2014 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

**Solar Power Satellites** Peter Edward Glaser,Arthur D. Little, Inc,American Association for the Advancement of Science Macro-Engineering Projects,1978 **Solar Energy Update** ,1982 *Solar Power Satellite* United States. Congress. House. Committee on Science and Technology. Subcommittee on Space Science and Applications,1979 **Solar Power Satellite** United States. Congress. House. Committee on Science and Technology. Subcommittee on Space Science and Applications,1978 **Solar Power Satellite Research, Development, and Demonstration Program Act of 1978** United States. Congress. Senate. Committee on Energy and Natural Resources. Subcommittee on Energy Research and Development,1978

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