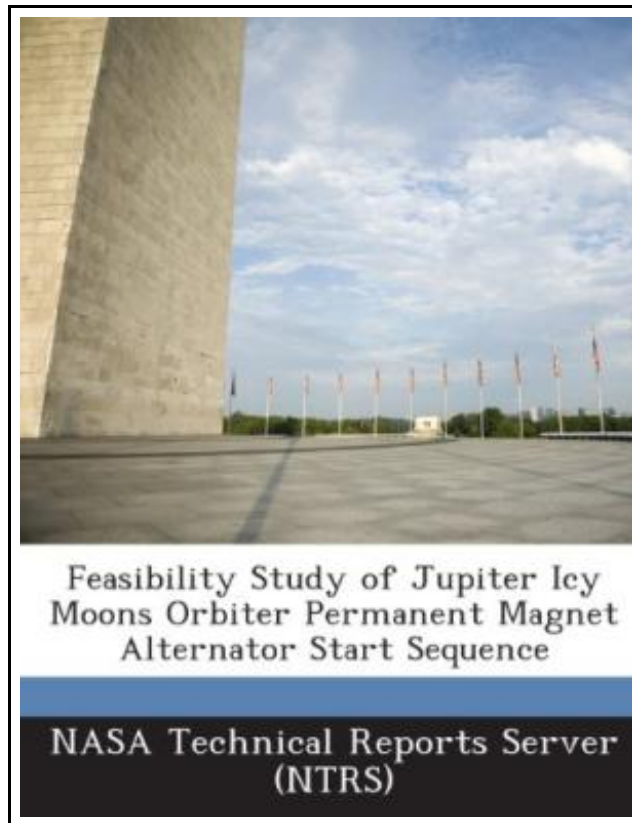


## Feasibility Study of Jupiter Icy Moons Orbiter Permanent Magnet Alternator Start Sequence



Filesize: 3.56 MB

### ***Reviews***

*This publication is indeed gripping and intriguing. It is actually writter in basic terms and not difficult to understand. I am just pleased to explain how here is the greatest publication we have read through during my own lifestyle and could be he best pdf for at any time.*

*(Ervin Crona)*

## FEASIBILITY STUDY OF JUPITER ICY MOONS ORBITER PERMANENT MAGNET ALTERNATOR START SEQUENCE

[DOWNLOAD](#)

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The Jupiter Icy Moons Orbiter (JIMO) mission was a proposed, (recently cancelled) long duration science mission to study three moons of Jupiter: Callisto, Ganymede, and Europa. One design of the JIMO spacecraft used a nuclear heat source in conjunction with a Brayton rotating machine to generate electrical power for the electric thrusters and the spacecraft bus. The basic operation of the closed cycle Brayton system was as follows. The working fluid, a heliumxenon gas mixture, first entered a compressor, then went through a recuperator and hot-side heat exchanger, then expanded across a turbine that drove an alternator, then entered the cold-side of the recuperator and heat exchanger and finally returned to the compressor. The spacecraft was to be launched with the Brayton system off-line and the nuclear reactor shut down. Once the system was started, the helium-xenon gas would be circulated into the heat exchangers as the nuclear reactors were activated. Initially, the alternator unit would operate as a motor so as to drive the turbine and compressor to get the cycle started. This report investigated the feasibility of the start up sequence of a permanent magnet (PM) machine, similar in operation to the alternator unit, without any position or speed feedback sensors (sensorless) and with a variable load torque. It is found that the permanent magnet machine can start with sensorless control and a load torque of up to 30 percent of the rated value. This item ships from La Vergne, TN. Paperback.



[Read Feasibility Study of Jupiter Icy Moons Orbiter Permanent Magnet Alternator Start Sequence Online](#)



[Download PDF Feasibility Study of Jupiter Icy Moons Orbiter Permanent Magnet Alternator Start Sequence](#)

## See Also



---

### **Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade**

Book Condition: Brand New. Book Condition: Brand New.

[Save eBook »](#)



---

### **Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]**

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

[Save eBook »](#)



---

### **Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]**

Createspace, United States, 2013. Paperback. Book Condition: New. 248 x 170 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

[Save eBook »](#)



---

### **Dont Line Their Pockets With Gold Line Your Own A Small How To Book on Living Large**

Madelyn D R Books. Paperback. Book Condition: New. Paperback. 106 pages. Dimensions: 9.0in. x 6.0in. x 0.3in.This book is about my cousin, Billy a guy who taught me a lot over the years and who...

[Save eBook »](#)



---

### **Adobe Photoshop 7.0 - Design Professional**

Book Condition: Brand New. Book Condition: Brand New.

[Save eBook »](#)