

# **Multiple Gravity Assist Interplanetary Trajectories (Earth Space Institute Book Series) By A V Labunsky;O V Papkov;K G Sukhanov**

**By A V Labunsky;O V Papkov;K G Sukhanov**

## **Multi-objective interplanetary trajectory -**

gravity-assist trajectories pose significant Multi-objective interplanetary trajectory optimization combining gravity assist; multiple

<http://link.springer.com/article/10.1007%2Fs11431-011-4705-5>

## **MULTIPLE GRAVITY ASSIST INTERPLANETARY -**

MULTIPLE GRAVITY ASSIST INTERPLANETARY TRAJECTORIES ALEXEI V. LABUNSKY Moscow Aviation Institute, Moscow, Russia OLEG V. PAPKOV and KONSTANTIN G. SUKHANOV

<http://www.gbv.de/dms/goettingen/252334116.pdf>

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<http://www.politesi.polimi.it/handle/10589/86622>

## **Jovian tour design for orbiter and lander missions -**

AAS Microfiche series, O.V. Papkov, K.G. Sukhanov; Multiple Gravity Assist Interplanetary Trajectories, Earth Space Institute Book Series.

<http://www.sciencedirect.com/science/article/pii/S0094576514000514>

## **Microcosm Astronautics Books - > Interplanetary -**

>Space Weather/Earth Weather from Space Multiple Gravity Assist Interplanetary Trajectories [A.V. Labunsky, O.V. Papkov, K.G. Sukhanov, 1998]

<http://astrobooks.com/interplanetarymissions.aspx>

## **CORE: Connecting Repositories -**

K.G.: Multiple gravity assist interplanetary trajectories. Earth Space Institute Book Series. A V Labunsky and O V Papkov. (1998). Sukhanov, K.G.:

<http://core.ac.uk/display/9028045>

### **A study of trajectories to the Neptune system -**

the outer planets and Venus gravity-assist trajectories trajectory with multiple gravity assists with Venus Earth Jupiter Neptune transfer,

<http://www.sciencedirect.com/science/article/pii/S0273117707001834>

### **Gravity assist - Wikipedia, the free encyclopedia -**

a gravitational slingshot, gravity assist first use in an interplanetary trajectory; uses multiple gravity assists at Venus to remove the Earth's

[http://en.wikipedia.org/wiki/Gravity\\_assist](http://en.wikipedia.org/wiki/Gravity_assist)

### **Earth Space Institute Book Series (Book Series) - -**

Earth Space Institute Book Series Multiple Gravity Assist Interplanetary Trajectories. O V Papkov, K G Sukhanov. Series: Earth Space Institute Book Series.

<http://www.taylorandfrancis.com/books/series/CRCEARSPAINS/>

### **Izzo, D.M., Myatt, D.R., Becerra, V.M. , Nasuto, -**

and global optimisation of multiple gravity assist spacecraft trajectories D 1 Introduction Many interplanetary trajectory design

[http://www.academia.edu/210655/Izzo\\_D.M.\\_Myatt\\_D.R.\\_Becerra\\_V.M.\\_Nasuto\\_S.J.\\_Bishop\\_J.M.\\_2006\\_Search\\_Space\\_Pruning\\_and\\_Global\\_Optimisation\\_of\\_Multiple\\_Gravity\\_Assist\\_Spacecraft\\_Trajectories\\_Journal\\_of\\_Global\\_Optimisation\\_38\\_2\\_pp.\\_283-296](http://www.academia.edu/210655/Izzo_D.M._Myatt_D.R._Becerra_V.M._Nasuto_S.J._Bishop_J.M._2006_Search_Space_Pruning_and_Global_Optimisation_of_Multiple_Gravity_Assist_Spacecraft_Trajectories_Journal_of_Global_Optimisation_38_2_pp._283-296)

### **Global optimisation of multiple gravity assist -**

Global optimisation of multiple gravity assist trajectories Ceriotti, Multiple gravity assist, interplanetary trajectories, global optimisation,

<http://theses.gla.ac.uk/2003/>

### **Basics of Space Flight Section I. The Environment -**

Upon completion of this chapter you will be able to describe the use of Hohmann transfer gravity assist trajectories interplanetary trajectory

<http://www2.jpl.nasa.gov/basics/bsf4-1.php>

### **Analysis of trajectories to neptune using gravity -**

Gravity assist is a proven technique in interplanetary exploration, as exemplified by the missions Voyager, Galileo, and Cassini. In the present paper, based in this

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### **Multiple gravity assist interplanetary -**

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<http://www.worldcat.org/title/multiple-gravity-assist-interplanetary-trajectories/oclc/40516417>

### **On Testing Global Optimization Algorithms for -**

Testing Global Optimization Algorithms for Space O.V. Papkov, K.G. Sukhanov. Multiple Gravity Assist Interplanetary Trajectories. ESI Book Series,

[http://www.academia.edu/5050820/On\\_Testing\\_Global\\_Optimization\\_Algorithms\\_for\\_Space\\_Trajectory\\_Design](http://www.academia.edu/5050820/On_Testing_Global_Optimization_Algorithms_for_Space_Trajectory_Design)

### **Literature Review on Interplanetary Travel - The -**

Literature Review on Interplanetary Travel the rising standards of life on Earth. Space holds the Sukhanov, K. (1998). Multiple gravity assist

<http://thespacerepublic.org/literature-review-on-interplanetary-travel/>

### **Physarum KISS : An innovative algorithm for the -**

Abstract. Multi-gravity assist (MGA) trajectories are used in space engineering for reducing the cost (propellant and time of flight) of interplanetary missions by

<http://strathprints.strath.ac.uk/44173/>

### **Preliminary Design of Low-Thrust Multiple Gravity- -**

gravity-assist interplanetary trajectories. Nomenclature  $F$  = objective function  $f$  solution domain for low-thrust multiple gravity-assist trajectories

<http://arc.aiaa.org/doi/pdf/10.2514/1.19646>

### **Tisserand-Leveraging Transfers (AIAA) -**

Tisserand-leveraging transfers "Jacobi's Integral and DV-Earth-Gravity Assist (DV-EGA) Trajectories", Labunsky, A. V., Papkov, O. V., Sukhanov, K. G.,

<http://arc.aiaa.org/doi/full/10.2514/1.62369>

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<http://www.amazon.it/Multiple-Gravity-Assist-Interplanetary-Trajectories/dp/905699090X>

### **Partial Derivatives of the Solution to the Lambert -**

with respect to the inputs of the Lambert boundary value problem are of Multiple Gravity-Assist Trajectories", A. V., Papkov, O. V., Sukhanov, K. G.,

<http://arc.aiaa.org/doi/full/10.2514/1.G001030>

### **Earth Space Institute Book series on public and -**

Earth Space Institute Book series on public and private Multiple gravity assist interplanetary trajectories. Alexei V. Labunsky, Oleg V. Papkov, Konstantin G

<http://ci.nii.ac.jp/ncid/BA46523099>

### **A fast tour design method using non-tangent $v$ -**

Papkov O., Sukhanov K.: Multiple Gravity Assist Interplanetary Trajectories, Earth Space Institute A fast tour design method using non-tangent  $v$ -infinity

<http://link.springer.com/article/10.1007/s10569-010-9295-1>

### **General Physics Books - Page 15 - Taylor & Francis -**

Series: Institute of Physics Conference Series. Compound Semiconductors 1998 explores research and development in key semiconductor materials and III-V space

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### **CiteSeerX MULTIPLE GRAVITY ASSIST TRAJECTORIES -**

Search space pruning and global optimization of multiple gravity assist trajectories with deep space Interplanetary trajectory preliminary design tool for

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.301.5085>

### **Building Interplanetary Trajectories with Multiple -**

trajectories with multiple gravity-assisted maneuvers is An interplanetary multi-gravity-assist trajectory may interplanetary trajectories with multiple

<http://arc.aiaa.org/doi/pdf/10.2514/1.27888>

### **Global Optimization Of Mga-Dsm Problems Using The -**

Abstract. Interplanetary multiple gravity assist (MGA) trajectory optimization has long been a field of interest to space scientists and engineers.

<http://digitalcommons.calpoly.edu/theses/663/>

### **CiteSeerX Citation Query Interplanetary -**

Interplanetary trajectory preliminary design tool for the Jovian Minisat Explorer MULTIPLE GRAVITY ASSIST TRAJECTORIES by Matteo Ceriotti, Dr. Euan, W

<http://citeseerx.ist.psu.edu/showciting?cid=11862801>

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<http://www.cyclopaedia.info/wiki/List-of-celestial-bodies>

### **Gravity- Assist | Fundstellen im Internet | -**

A V Labunsky, O V Papkov, K G Sukhanov, www.amazon.de/Multiple-Gravity-Assist-Interplanetary it would have on earth. The process of gravity assist will

<http://www.cyclopaedia.de/wiki/Gravity-Assist>

### **Europa Orbiter tour design with lo gravity assists -**

For a Europa Orbiter mission, A.V. Labunsky, O.V. Papkov, K.G. Sukhanov; Multiple Gravity Assist Interplanetary Trajectories.

<http://www.sciencedirect.com/science/article/pii/S0094576510003395>

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18. Vasile, M., De Pascale, P.: Preliminary design of multiple gravity-assist trajectories. J (2006) 8 Global Optimization of Interplanetary Transfers with

<http://bt.pa.msu.edu/pub/papers/GASPDAM12/GASPDAM12.pdf>

### **14 - Contamination of spacecraft and planets - -**

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<http://www.amazon.com/Multiple-Gravity-Interplanetary-Trajectories-Institute/dp/905699090X>

### **Spacecraft Trajectory Optimization - Cambridge -**

Cooperative Evolutionary Algorithm for Space Trajectory Optimization, Sukhanov K. G. (1998) Multiple Gravity Assist Interplanetary Trajectories, Earth Space

<http://ebooks.cambridge.org/ref/id/CBO9780511778025>

### **Gravity assist maneuvers of a spacecraft in -**

Gravity assist maneuvers of a spacecraft in Jupiter system. Authors: V. V. Koryanov: Keldysh Institute of Applied Mathematics, Russian Academy of Sciences,

<http://dl.acm.org/citation.cfm?id=2636022>

## **A Gravity Assist Primer - Jet Propulsion -**

Mar 03, 2010 what happens when a robotic spacecraft takes advantage of a "gravity assist" on its interplanetary 3 Gravity & Mechanics 4 Trajectories 5

<http://www2.jpl.nasa.gov/basics/grav/index.php>

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