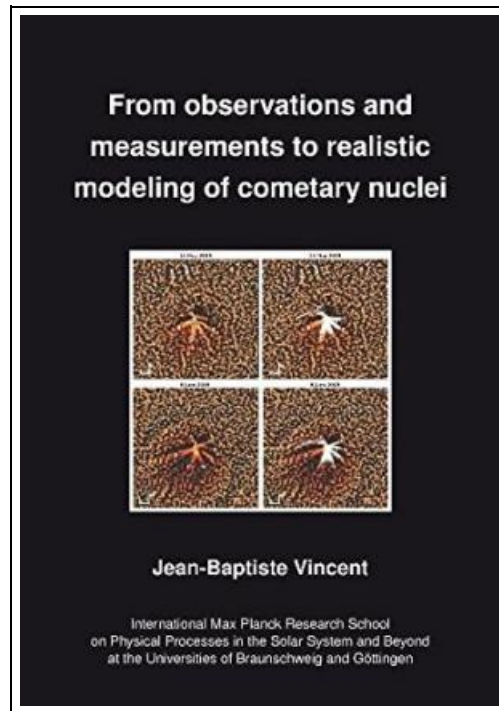


From observations and measurements to realistic modelling of cometary nuclei



Filesize: 3.4 MB

Reviews

Most of these publication is the greatest publication offered. It is actually rally intriguing through reading period of time. You can expect to like just how the article writer create this publication.

(Eddie Schuppe)

FROM OBSERVATIONS AND MEASUREMENTS TO REALISTIC MODELLING OF COMETARY NUCLEI



Uni - Edition GmbH Mai 2010, 2010. Taschenbuch. Book Condition: Neu. 211x152x10 mm. Neuware - Studying the surface of a comet is challenging as the nucleus is either too far to be resolved in details, or it is close enough but its own activity hides all the features we would like to investigate. One of the topic of interest is the localization of active regions on the surface. Although this can be done from a spacecraft, the jets of gas and dust represent a hazard for any probe passing at close distance from the nucleus and any hint on the local activity should be taken into consideration to constrain the approach. This thesis discusses observations, analysis, and simulations of dust coma structures: patterns embedded in the coma and considered as signatures of active dust emitting regions at the surface of the nucleus. We present a scientific software package that allows to determine a realistic physical model of cometary nuclei from ground or space based observations. Our model includes a flexible 3D representation of the nucleus and a physical description of the dust acceleration processes its neighborhood. Several results are presented here, among them a full analysis of the coma structures for comet 9P/Tempel 1 leading to the determination of its spin axis orientation, the localization of active regions, and constraining of the dust parameters as well as the activity profile, with excellent agreement between our results and in-situ measurements from the Deep Impact mission. Such a modeling attempt including a realistic shape of the nucleus is a challenging first worldwide and we believe it has the prospect to path the way into a new era of modeling interpretation of comets that will be needed in the context of ESAs ROSETTA mission to comet 67P/Churyumov-Gerasimenko. 110 pp. Englisch.



[Read From observations and measurements to realistic modelling of cometary nuclei Online](#)



[Download PDF From observations and measurements to realistic modelling of cometary nuclei](#)

See Also



Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG,...

[Read Document](#)

»



Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers...

[Read Document](#)

»



Adobe Indesign CS/Cs2 Breakthroughs

Peachpit Press, 2005. Softcover. Book Condition: Neu. Gebrauch - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Adobe InDesign is taking the publishing world by storm and...

[Read Document](#)

»



Have You Locked the Castle Gate?

Addison-Wesley Professional. Softcover. Book Condition: Neu. Gebrauch - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Is your computer safe Could an intruder sneak in and steal...

[Read Document](#)

»



The Java Tutorial (3rd Edition)

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebrauch - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Praise for "The Java' Tutorial, Second Edition" includes: "This book...

[Read Document](#)

»